

Certificado de Conformidade

Certificate of Conformity

Certificado/Certificate
UL-BR 25.0614

Revisão / Review
04

Emissão / Issue
20 de maio de 2025
May 20, 2025

Validade / Expiration
08 de abril de 2028
April 08, 2028



Reconhecer que o Solicitante / *Acknowledge that the Certificate Holder*

Lenovo Tecnologia (Brasil) Ltda.

avaliou o produto / *has had*

**Computador de mesa/
Desktop**

ao qual atende aos requisitos do Programa de Certificação ou Portaria
/ evaluated and meets the requirements of the Certification Program or Decree

**PORTARIA NO. 304/2023
DECREE NO. 304/2023**

e pode ostentar o Selo de Identificação da Conformidade do Sistema Brasileiro de Avaliação da Conformidade (SBAC) sobre o(s) produto(s) relacionado(s) neste certificado.

and can display the Conformity Identification Seal of the Brazilian Conformity Assessment System (SBAC) on the product(s) listed in this certificate.

Rafael Parada
Program Owner

UL do Brasil Ltda, organismo acreditado pela Coordenação Geral de Acreditação do INMETRO – CGCRE, segundo o registro Nº OCP-0029. /

UL do Brasil Ltda, Certification Body accredited by Coordenação Geral de Acreditação do INMETRO - CGCRE according to the register Nr OCP-0029.

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Solicitante / Certificate Holder **Lenovo Tecnologia (Brasil) Ltda.**
102358 Estrada Municipal José Costa de Mesquita, 200, Galpão 1 a 11, Chacara
13337-200, Chácara Alvorada, Indaiatuba, SP
CNPJ: 07.275.920/0001-61

Fabricante / Manufacturer **Lenovo Tecnologia (Brasil) Ltda.**
102358 Estrada Municipal José Costa de Mesquita, 200, Galpão 1 a 11, Chacara
13337-200, Chácara Alvorada, Indaiatuba, SP
CNPJ: 07.275.920/0001-61

Modelo de Certificação / 5
Certification Model

Norma(s) Aplicável(is) / IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, IEC 62368-1:
Applicable standards 2018, CISPR 22:2008, CISPR 32:2012, CISPR 32:2015/COR:2016, CISPR
35:2015 + A1:2020, CISPR 24:2010+A1:2015, IEC 61000-3-2:2014, IEC 61000-
3-3:2013, IEC 61000-4-2:2008, IEC 61000-4-3:2006 +A1:2007 +A2:2010, IEC
61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-
8:2009, IEC 61000-4-11:2004 e Anexo D – Portaria 304:2023 (Eficiência
Energética).

Identificação UL / BR2334 / Vol.1 / Sec.45
UL Identification

Lote ou No. de Série / N/A
Lot or Serial Number

Identificação da Família/Modelo/Lote de Produto(s) Certificado(s):
Identification of the Family/Model/Lot of Certified Product(s):

Marca / Brand Name	Modelo / Model	Descrição / Description
LENOVO	ThinkCentre neo 50s Gen 4 (11SW, 11SX, 11SY, 11T0, 12JE, 12JF, 12JG, 12JH), ThinkCentre neo 50q Gen 4 (12LM, 12LN, 12LQ, 12LR, 12LW, 12LX, 12LY, 12M0, 12M1, 12M2, 12M3, 12M4, 12LH, 12LJ, 12LK, 12LL, 12M5, 12M6 12JG, 12JH), ThinkCentre M70q Gen 5 (12TD*, 12TE*, 12TF*, 12TG*, 12TN*, 12TQ*, 12TR*, 12TS*, 13E2), ThinkCentre M70s Gen 5 (12U2*, 12U3*, 12U7*, 12U8*, 13E3), ThinkCentre M75q Gen 5 (12RQ*, 12RR*, 12RS*, 12RT*, 12VG*, 12RU*, 12RV*, 12RW*, 12RX*, 12VH*, 13E1), ThinkCentre M75s Gen 5 (12T9*, 12TA*, 12TB*, 12TC*, 13DY), ThinkCentre M90q Gen 5 (12TH*, 12TJ*, 12TK*, 12TL*, 12TT*, 12TU*, 12TV*, 12TW*, 13E6), ThinkCentre neo 50s Gen 5 (13EJ, 12XG, 12XF, 12XE, 12XD), ThinkCentre M75s Gen 2 (ThinkCentre M75s Gen 2 (11R7, 11R8, 11R9, 11RA,	

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	13DX, 13EU, 13EV, 13EW, 11W1, 11W2, 11W3, 11W4), ThinkCentre neo 30s Gen 5 (13DGx, 13DHx, 13DJx, 13DKx), ThinkCentre M70q Gen 6 Intel (13A4*, 13A5*, 13A6*, 13A7*, 13A8*, 13A9*, 13AA*, 13AB*, 13BJ*, 13BK*, 13BL*, 13E8*, 13EK*), ThinkCentre M70s Gen 6 (12YJ*, 12YK*, 13BQ*, 12YN*, 12YQ*, 13BR*, 13DT*, 13ES*, 13EM*, 13ET*), ThinkCentre M90q Gen 6 (13AC*, 13AD*, 13AE*, 13AF*, 13AG*, 13AH*, 13AJ*, 13AK*, 13BM*, 13BN*, 13E9*, 13EL*), ThinkCentre Neo 50q Gen 5 (13B9*, 13C5*, 13C6*, 13C7*, 13CC, 13CD*, 13CE, 13CF, 91C4*) - (X" can be any alphanumeric character or blank).	
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Informações de Ensaio / Test Information:

Laboratório de Ensaio / Testing Laboratory	Relatório de Ensaio / Test Report	Data de Emissão / Issue Date
UL-CCIC Company Limited	OFF-4786852502-A-1	2015-09-15
QuieTek Corporation - Suzhou Testing Laboratory	1570347R-IT-CE-P01V01	2015-08-19
QuieTek Corporation - Suzhou Testing Laboratory	1570347R-ITUSP01V02	2015-08-19
Underwriters Laboratories Taiwan Co., Ltd.	4787133880	2015-08-20
Intertek Testing Services Shanghai	150601410SHA-001	2015-08-17
QuieTek Corporation - Suzhou Testing Laboratory	1570349R-IT-CE-P01V01	2015-08-21
QuieTek Corporation - Suzhou Testing Laboratory	1570347R-ITUSP01V02	2015-08-24
Underwriters Laboratories Taiwan Co., Ltd.	4787062985	2015-08-25
TÜV Rheinland (China) Ltd.	16804576 001	2015-10-21
QuieTek Corporation - Suzhou Testing Laboratory	1570341R-IT-CE-P01V01	2015-10-30
QuieTek Corporation - Suzhou Testing Laboratory	1570341R-ITUSP01V02	2015--10-30
Underwriters Laboratories Taiwan Co., Ltd.	4787141290	2015-10-20
UL-CCIC Company Limited	OFF-4787141342-A-1	2015-12-28
EMTEK (Shenzhen) Co., Ltd.	ES151012034E	2016-02-01
EMTEK (Shenzhen) Co., Ltd.	ES151012034E-2	2016-08-11
International Standards Laboratory	ISL-16LE042FB	2016-01-22
Underwriters Laboratories Taiwan Co., Ltd.	4787307591	2016-02-01
TUV Rheiland Japan Ltd.	JPTUV-076934	2016-12-01
EMTEK (Shenzhen) Co., Ltd.	ES160830026E	2016-11-25
Dekra Testing and Certification Co. Ltd.	16C2005E-ITUSP01V02	2017-01-11
TUV Rheiland Japan Ltd.	JPTUV-076935	2016-11-29
QuieTek Corporation - Suzhou EMC Laboratory	1692061E-MME-CE-P01V01	2016-11-23
TÜV Rheinland (China) Ltd	50063530 002	2017-09-27
Intertek Testing Services Limited, Shanghai	180701932SHA-003	2018-08-02
EMTEK (Shenzhen) Co., Ltd.	ES171031992E	2018-04-04
EMTEK (Shenzhen) Co., Ltd.	ES171031998E	2018-04-04
UL-CCIC Company Limited	E307995-A422-CB-1	2018-04-11

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Intertek Testing Services Limited, Shanghai	180701932SHA-004	2018-08-01
UL (Demko),	ACSCBIT18014	2018-04-17
EMTEK (Shenzhen) Co., LTD.	ES180327004E	2018-04-11
EMTEK (Shenzhen) Co., LTD.	ES180327005E	2018-04-11
UL-CCIC Company Limited	E307995-A421-CB-1	2018-04-13
DEKRA Testing & Certification (Suzhou) Co., Ltd.	1832081E-MME-CE-P01V01	2018-04-18
Intertek Testing Services Ltd., Shanghai	180701932SHA-005	2018-08-03
TÜV Rheinland (China) Ltd.	50132451 001	2018-04-04
DEKRA Testing & Certification (Suzhou) Co., Ltd.	1832062E-MME-CE-P01V01	2018-03-28
DEKRA Testing & Certification (Suzhou) Co., Ltd.	1832062E-IT-US-P01V01	2018-03-28
Intertek Testing Services Ltd., Shanghai	181000122SHA-001	2018-10-22
IBEC	R190726	2019-04-01
IBEC	R190727	2019-04-08
FIT	V19-020-SERV-02	2019-03-22
Testing Services Limited, Shanghai	190601416SHA-001	2019-06-26
EMTEK (Shenzhen) Co., Ltd.	ES180223004E	2018-03-07
EMTEK (Shenzhen) Co., Ltd.	ES180223006E	2018-03-08
TÜV Rheinland (China) Ltd	50051080 003	2018-02-13
Testing Services Limited, Shanghai	190802163SHA-001	2019-08-29
Audix Technology (Shenzhen) CO., Ltd.	ACSCBIT18014-01	2019-07-09
Relatório de ensaio emitido por / Test report issued by EMTEK (Shenzhen) Co., Ltd.	ES190619035E	2019-07-12
TÜV Rheinland (China) Ltd.	50252832 001	2019-06-18
EMTEK (Shenzhen) Co., Ltd.	ES190429964E	2019-05-20
Intertek Testing Services Limited, Shanghai	200100437-SHA-001	2020-06-01
TÜV Rheinland (China) Ltd.	50284823 001	2019-12-03
DEKRA Testing & Certification (Suzhou) Co., Ltd.	19A2118E-MME-CE-P01V01	2019-11-15
Intertek Testing Services Limited, Shanghai	200200014SHA-001	2020-02-12
Intertek Testing Services Limited, Shanghai	191001463SHA-001	2019-12-09
DEKRA Testing & Certification (Suzhou) Co., Ltd.	19A2128E-MME-CE-P01V01	2019-11-15
Intertek Testing Services Limited, Shanghai	200200015SHA-001	2020-02-12
IBEC	R194729	2020-04-08
IBEC	R194730	2020-04-16
FIT	V19-151-SERV-01	2020-03-24
Intertek Testing Services Limited, Shanghai	191102130SHA-001	2019-12-15
EMTEK (Shenzhen) Co., Ltd.	ES191106013E	2019-11-18
FIT	S20-078-SERV-01	2020-09-01
Intertek Testing Services Limited, Shanghai	191201884SHA-001	2019-12-16
EMTEK (Shenzhen) Co., Ltd.	ES191106009E	2019-11-18
FIT	S20-078-SERV-02	2020-09-01
TÜV Rheinland (China) Ltd.	50235116 001	2019-04-23
EMTEK (Shenzhen) Co., Ltd.	ES190422977E	2019-05-11
Intertek Testing Services Limited, Shanghai	200501942SHA-001	2020-06-04

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Intertek Testing Services Limited, Shanghai	200700259SHA-001	2020-07-17
Laboratory Name UL-CCIC Company Limited	E307995-A6041-CB-1	2020-01-06
Dekra	2050156R-IT-JP-P01V01	2020-06-02
Dekra	2050156R-MME-CE-P01V01	2020-05-29
Dekra	2050156R-RF-CE-P01V01	2020-06-02
Intertek	200702652SHA-001	2020-08-19
TUV Rheinland	60376965 002	2020-06-16
TUV Rheinland	60376965 001	2020-06-03
Intertek Testing Services Limited, Shanghai	200500269SHA-001	2020-07-20
EMTEK (Shenzhen) Co., Ltd.	ES200427033E	2020-05-20
Intertek Testing Services Limited, Shanghai	200401737SHA-001	2020-05-25
Instituto de Pesquisas Eldorado	LET-ENE-RE 2395-8971-01-C - 01.00 (Pt)	2021-06-30
IBEC	IBEC210328	2021-07-30
IBEC	IBEC210329	2021-08-06
EMTEK (Shenzhen) Co., LTD.	ES200928008E	2021-01-07
TUV Rheinland (China) Ltd.	CN2011VA 001	2020-12-08
TUV Rheinland (China) Ltd.	CN206NJZ 001	2020-12-16
Intertek Testing Services Limited, Shanghai	200201344SHA-001	2021-03-16
TUV Rheinland	60376965 003	2021-03-01
UL-CIC Company Limited	E307995-A6127-CB-1	2021-10-20
UL-CIC Company Limited	E307995-A6122-CB-1	2021-10-11
Intertek Testing Services Limited, Shanghai	210901777SHA-001	2021-11-02
EMTEK (Shenzhen) Co., LTD.	ES210525010E	2021-09-15
EMTEK (Shenzhen) Co., LTD.	ES210425011E	2021-10-23
Intertek Testing Services Limited, Shanghai	220101813SHA-001	2022-02-10
Intertek Testing Services Limited, Shanghai	210902598SHA-002	2021-10-21
DEKRA Testing & Certification (Suzhou) Co., Ltd.	21A0829R-MME-CE-P01V01	2021-11-22
SGS-CSTC Standars Technical Services (Shanghai) Co., Ltd.	SHES211102367851	2021-12-17
TUV Rheinland (China) Ltd.	CN21CWMG 001	2021-09-01
EMTEK (Shenzhen) Co., LTD.	ES210425021E	2021-12-25
Intertek Testing Services Limited, Shanghai	211200841SHA-001	2021-12-09
Intertek Testing Services Limited, Shanghai	210500481SHA-002	2021-08-11
TUV Rheinland	60376965 004	2021-06-09
TUV Rheinland	60376965 005	2022-04-11
Instituto Brasileiro de Ensaios de Conformidade Ltda	IBEC231003	2023-06-02
Instituto Brasileiro de Ensaios de Conformidade Ltda	IBEC231004	2023-06-14
EMTEK (Shenzhen) Co., LTD.	ENS2205200148W001	2022-10-21
Intertek	221102642SHA-001	2022-11-29
UL-CCIC Company Limited	E307995-A6126-CB-1	2021-10-20
UL-CCIC Company Limited	E307995-A6127-CB-1	2022-09-27
SGS Taiwan Ltd.	TM-2212000443P	2023-02-06
Intertek	230100898SHA-001	2023-02-06
Wendell Electrical Testing Lab	WL-O44-23A410-A0	2023-02-14
EMTEK (Shenzhen) Co., LTD.	ENS2205310330W00101R	2022-10-28
Intertek	221202267SHA-001	2022-12-30

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Intertek	220901877SHA-003	2022-10-31
Intertek	221101222SHA-002	2022-11-22
Intertek	221101222SHA-001	2022-11-22
EMTEK (Shenzhen) Co., LTD.	ENS2211100055w00101R	2022-12-12
Intertek	2301011065SHA-001	2023-02-03
UL-CCIC Company Limited	E307995-A6192-CB-1	2023-03-27
Intertek Testing Services Limited, Shanghai	230101106SHA	2023-02-03
Dekra	2330071R-MME-CE-P01V01	2023-03-31
Instituto de Pesquisas Eldorado	LET-EMC-RE 2395-14458-01-C - 01_00 Pt	2024-06-10
Instituto de Pesquisas Eldorado	LET-ENE-RE 2395-14458-01-C [CE] - 01.00 (Pt)	2024-06-06
Instituto de Pesquisas Eldorado	LET-ID 2395-14458-01 - 01_00 Pt	2024-05-27
Instituto de Pesquisas Eldorado	LET-SEG-RE 2395-14458-01-C - 01.00 (Pt)	2024-06-06
EMTEK (Shenzhen) CO., Ltd.	ENS2312150172W00501R	2024-03-05
Intertek Testing Services Limited, Shanghai	231200945SHA-001	2024-03-20
Intertek Testing Services Limited, Shanghai	231200795SHA-001	2024-04-03
Intertek Testing Services Limited, Shanghai	231200793SHA-001	2024-02-01
TÜV Rheinland (China) Ltd.	CN23LVN6 001	2024-03-21
Dekra	23A0344R-MME-CE-P01V01	2023-12-15
Intertek Testing Services Limited, Shanghai	240200262SHS-001	2024-02-18
Dekra	2410020R-MME-CE-P01V01	2024-02-05
Intertek Testing Services Limited, Shanghai	231200946SHA-001	2024-03-20
TÜV Rheinland (China) Ltd.	CN232XEC 001	2024-01-05
TÜV Rheinland (China) Ltd.	CN23CTIJ 001	2023-12-27
UL-CCIC Company Limited	E307995-A62227-CB-1	2024-03-19
UL-CCIC Company Limited	E307995-A6227-CB-1	2023-12-18
Intertek Testing Services Limited, Shanghai	231200365SHA-001	2024-02-21
EMTEK (Shenzhen) CO., Ltd.	ENS2309200245W00101R	2023-12-26
Intertek Testing Services Limited, Shanghai	231200947SHA-001	2024-03-20
EMTEK (Shenzhen) CO., Ltd.	ENS2312150172W000101R	2024-01-23
Intertek Testing Services Limited, Shanghai	231200786SHA-003	2024-01-18
Intertek Testing Services Limited, Shanghai	240700030SHA-001	2024-07-18
UL-CCIC Company Limited	E307995-A6243-CB-1	2024-07-29
UL-CCIC Company Limited	E307995-A6242-CB-1	2024-07-28
EMTEK (Shenzhen) CO., Ltd.	ENS2404120202W00301R	2024-06-24
Instituto de Pesquisas Eldorado	LET-ID 2395-16700-01 - 01_00 Pt	2025-05-09
Instituto de Pesquisas Eldorado	LET-EMC-RE 2395-16700-01-C - 01_00 Pt	2025-05-07
Instituto de Pesquisas Eldorado	LET-SEG-RE 2395-16700-01-C - 01_00 Pt	2025-04-06
Instituto de Pesquisas Eldorado	LET-ENE-RE 2395-16700-05-C CE - 01_00 Pt	2025-05-23
Instituto de Pesquisas Eldorado	LET-ID 2395-16700-05 - 01_00 Pt	2025-05-23
Intertek Testing Services Shanghai (FTZ) Co., Ltd.	241100016SHA-001	2024-11-22
EMTEK (Shenzhen) CO., Ltd.	ENS2409240193W00401R	2024-11-06
EMTEK (Shenzhen) CO., Ltd.	ENS2409240193W00301R	2024-11-06
UL-CCIC Company Limited	E307995-A6250-CB-1	2024-11-27
UL-CCIC Company Limited	E307995-A6251-CB-1	2024-11-27

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Intertek Testing Services Shanghai (FTZ) Co., Ltd.	250500012SHA-001	2025-05-09
Intertek Testing Services (Shanghai FTZ) Co., Ltd.	241000060SHA-002	2025-02-06
EMTEK (Shenzhen) CO., Ltd.	ENS2501150220W00101R	2025-02-25
TUV Rheinland (China) Ltd.	CN240BZJ 001	2024-12-25
Intertek Testing Services Shanghai (FTZ) Co., Ltd.	250500013SHA-001	2025-05-09
DEKRA Testing & Certification (Suzhou) Co., Ltd.	24B0373R-MME-CE-P01V01	2024-12-31
UL-CCIC Company Limited	E307995-A6262-CB-1	2025-03-03
Intertek Testing Services Shanghai (FTZ) Co., Ltd.	250500011SHA-001	2025-05-09
EMTEK (Shenzhen) CO., Ltd.	ENS2501150231W00101R	2025-03-13
Audix Technology (Shenzhen) CO., Ltd.	C1M2502040	2025-03-03
Intertek Testing Services Shanghai (FTZ) Co., Ltd.	2502B1492SHA-001	2025-04-16
Wendell Electrical Testing Lab	WL-ITAV-1-24H2708-A0	2025-03-12
EMTEK (Shenzhen) CO., Ltd.	ENS250115022W00101R	2025-02-25

Informações de Auditoria / Audit Information:

Local da Auditoria / Audit Location	Data de Realização / Perform Date
Tratamento de Reclamações Complaint Handling	01/04/2025
Fabricante Manufacturer	

Informações Adicionais / Additional Information:

100-240 Vac, 3 A, 50/60 Hz, Class I

100-240 Vac, 4 A, 50/60 Hz

100-240 Vac, 3,6 A, 50/60 Hz

100-240 Vac, 5 A, 50/60 Hz

3.25A, 4.5A, 6.75 A, 8.5 A, 20 Vdc, Class III

20Vdc/3.25A or 20Vdc/4.5A or 20Vdc/6.75A

Input: 100-240Vac, 4A, 50/60Hz (With PSU HK360-72PP S1, PA1261-01YX, FSP260-11TLA, PCL015, PCJ007) ou 100-240Vac, 3A, 50/60Hz (With PSU PA-1181-03YX, PCJ010, HK280-73PP xy, FSP180-10TLA) para o modelo ThinkCentre neo 30s Gen5

Observações / Observations:

1. A validade deste Certificado de Conformidade está atrelada à realização das avaliações de manutenção e tratamento de possíveis não conformidades de acordo com as orientações da UL do Brasil Certificações previstas no RAC específico. Para verificação da condição atualizada de regularidade deste Certificado de Conformidade deve ser consultado o banco de dados de produtos e serviços certificados do Inmetro.

The validity of this Certificate of Conformity is linked to the performance of maintenance assessments and treatment of possible non-conformities in accordance with the guidelines of UL do Brasil Certifications provided for in the specific Conformity Assessment Regulation. To check the updated condition of regularity of this Certificate of Conformity, the Inmetro database of certified products and services must be consulted.

2. Este certificado aplica-se aos equipamentos (produtos) idênticos ao protótipo avaliado e certificado, manufaturados na(s) unidade(s) fabril(is) mencionada (s) acima.

This certificate applies to the products that are identical to the prototype investigated, certified and manufactured at the production site mentioned in this certificate.



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3. Qualquer alteração no produto, incluindo a marcação, invalidará o presente certificado, salvo se o solicitante informar por escrito à UL do Brasil Certificações sobre esta modificação, a qual procederá à avaliação e decidirá quanto à continuidade da validade do certificado.
Any non-authorized changes performed in the product, including marking, will invalidate this certificate. UL do Brasil Certificações must be notified about any desired change. This notification will be analyzed by UL do Brasil Certificações that will decide about certificate force.
4. Esta autorização está vinculada a um contrato e para o escopo acima citado.
This license is related to a commercial proposal and to the scope above cited.

Histórico de Revisões / Revisions History:

Revisão / Review	Data / Date	Descrição da Revisão / Revision Description
04	17 de Novembro de 2025 / November 17, 2025	Inclusão do componente crítico fonte de alimentação PSLX310SPWA-L.
03	29 de Agosto de 2025 / August 29, 2025	Inclusão dos modelos ThinkCentre M70q Gen 6 Intel (13A4*, 13A5*, 13A6*, 13A7*, 13A8*, 13A9*, 13AA*, 13AB*, 13BJ*, 13BK*, 13BL*, 13E8*, 13EK*), ThinkCentre M70s Gen 6 (12YJ*, 12YK*, 13BQ*, 12YN*, 12YQ*, 13BR*, 13DT*, 13ES*, 13EM*, 13ET*), ThinkCentre M90q Gen 6 (13AC*, 13AD*, 13AE*, 13AF*, 13AG*, 13AH*, 13AJ*, 13AK*, 13BM*, 13BN*, 13E9*, 13EL*), ThinkCentre Neo 50q Gen 5 (13B9*, 13C5*, 13C6*, 13C7*, 13CC, 13CD*, 13CE, 13CF, 91C4*).
02	02 de Junho de 2025 / June 02, 2025	Inclusão do modelo ThinkCentre neo 30s Gen 5 (13DGx, 13DHx, 13DJx, 13DKx).
01	26 de maio de 2025 / May 26, 2025	Inclusão dos ensaios de eficiência energética.
00	20 de maio de 2025 / May 20, 2025	Emissão inicial com recertificação do certificado UL-BR 22.1054/ Initial Issue with renewall of certificate UL-BR 22.1054 – Exclusão dos modelos ThinkCentre M75q Gen 2, ThinkCentre M80q Gen 3, ThinkCentre M80s Gen 3, ThinkCentre M70q Gen 3, ThinkCentre M70q Gen 4, ThinkCentre M80q Gen 4 e ThinkCentre M90s Gen 4.
A última revisão substitui e cancela as anteriores / The last review replaces and cancels the previous ones		

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Anexo I / Attachment I:

Componente / Component	Manufacturer/ trademark	Type/model	Technical data	Norma/ Standard	
Adapter	Acbel Polytech Inc.	ADLX45YAC2D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO105856), (NO105995)
Adapter (Alternate)	Acbel Polytech Inc.	ADLX45YAC3D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO105842), (NO105937)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC2D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102327/A2/ M1), CB by Demko (DK- 73341-M2-UL)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102328/A1/ M1), CB by Demko (DK- 73342-M1-UL)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3G	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class I (with class II construction throughout), Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102328/A1/ M1), CB by Demko (DK- 73342-M1-UL)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX45YDC3D, ADP-45EG B, ADLX45YDC2D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class II with functional earth for model: ADLX45YDC3D, ADP-45EG B; Class II for model: ADLX45YDC2D, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH (JPTUV-088399), (JPTUV-088525)
Adapter (Alternate)	Lite-On Technology Corp	ADLX45YLC2D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A,	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 74396-UL), (DK-74550-UL)

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			Class II, Ambient: 40°C, Altitude: 5000m		
Adapter (Alternate)	Lite-On Technology Corp	ADLX45YLC3D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 73964-UL), (DK-73960-UL)
Adapter (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 2.25A Tma: 35 °C min. Altitude: 5000m	UL 60950-1 2 nd , UL 62368-1, 2 nd Edition, IEC 60950- 1/ A2:2013, IEC 62368-1:2014 (ed.2), EN 62368- 1: 2014/A11:2017	UL, CB
Adapter (Alternate)	Acbel Polytech Inc.	ADLX65YAC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO106299), (NO106292)
Adapter (Alternate)	Acbel Polytech Inc.	ADLX65YAC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO106182), (NO106181)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102312), CB by Demko (DK- 73335- UL)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC3E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1:2005, AMD1:2009, AMD2:2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	CB by UL (Demko) (DK- 131850-UL), (DK- 131825-UL)
Adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC3E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017, BS EN 62368-1: 2014+A11: 2017,	CB by TUVRh (JPTUV- 140101), (JPTUV- 140255), (JPTUV- 139969)

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				IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	
Adapter (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC3E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020	CB by Nemko (NO123886), (NO123885)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC3E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-139978)
Adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC2E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017, BS EN 62368-1: 2014+A11: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-140637), (JPTUV-140640), (JPTUV-140756)
Adapter (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC2E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1:2005, AMD1:2009, AMD2:2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	CB by UL Solutions (Demko) (DK-131855-UL), (DK-131831-UL)
Adapter (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC2E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020	CB by Nemko (NO123867), (NO123794)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC2E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-139994)
Adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC3E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017, BS EN 62368-1: 2014+A11: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-140101), (JPTUV-140255), (JPTUV-139969)

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				2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	
Adapter (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC3E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020	CB by Nemko (NO123886), (NO123885)
Adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC3E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-139978)
Adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC2E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017, BS EN 62368-1: 2014+A11: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-140637), (JPTUV-140640), (JPTUV-140756)
Adapter (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC2E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1:2005, AMD1:2009, AMD2:2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	CB by UL Solutions (Demko) (DK-131855-UL), (DK-131831-UL)
Adapter (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC2E	I/P: 100-240V~, 1.8A, 50-60Hz O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020	CB by Nemko (NO123867), (NO123794)
Adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC2E	I/P: AC 100-240V, 50-60Hz; 1.8A O/P: 15Vdc, 3A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 62368-1: 2018, EN IEC 62368-1: 2020+A11: 2020, BS EN IEC 62368-1: 2020+A11: 2020	CB by TUVRh (JPTUV-139994)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC2 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A,	IEC 60950-1/A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH (JPTUV-096409), (JPTUV-096534)

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			Class II, Ambient: 40°C, Altitude: 5000m		
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC3 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH(JPTUV- 096407), (JPTUV- 096521)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC3D, ADP-65XD B, ADLX65YDC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH(JPTUV- 088370), (JPTUV- 088549)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YSDC2 A, ADLX65YSDC3 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH(JPTUV- 097420), (JPTUV- 097518)
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YLC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 73622-UL), (DK-73627-UL)
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YLC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 73466-M1- UL), (DK-73473-M1-UL)
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YSLC2A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH(JPTUV- 096377), (JPTUV- 096374)
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YSLC3A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A,	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2),	CB by TUVRH(JPTUV- 096300), (JPTUV- 096303)

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			Class I, Ambient: 40°C, Altitude: 5000m	EN 62368-1: 2014/A11:2017	
Adapter (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 3.25A Tma: 35 °C min. Altitude: 5000m	UL 60950-1 2 nd ; UL 62368-1, 2 nd Edition, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB
Enclosure Material for top cover and bottom case	Covestro Deutschland AG[PC Resins]	FR3021 + (+ - Material designations may be followed by a six digit numerical code denoting color.)	V-0, thickness 1.5 mm minimum, 85°C	UL 94, UL 746	UL
Enclosure Material for top cover and bottom case (Alternate)	NINGBO LG YONGXING CHEMICAL COLTD	LUPOY GN-5151RF(#) (#) May or may not be followed by suffix letter from A-Z inclusive, except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X	V-0, thickness 1.0mm min., 60°C	UL 94, UL 746	UL
Enclosure Material for LCD bezel	LOTTE CHEMICAL CORPORATION	NH-1024(+) (+) - May be replaced by one, two, or three numbers and/or letter(s)	V-0, thickness 0.75mm min., 60°C	UL 94, UL 746	UL
Enclosure Material for LCD bezel (Alternate)	MITSUBISHI ENGINEERING-PLASTICS CORP	MB1700+ (+ Suffix optional, exceptions: The following cannot be used as optional suffixes: "NF" for grade NXG5050, "N" for grade NXG5030, "N" for grade MB2112+, "S1" for grade F20-54, "V" for grades S-2000+(f1), S-2001+(f1), S-2003+(f1), the last letter "L" for grade CFH2520+.)	V-0, thickness 0.75mm min., 60°C	UL 94, UL 746	UL
Enclosure Material for top side around keyboard	LOTTE CHEMICAL CORPORATION	NH-1021(+) (+) - May be replaced by one, two, or three	V-0, thickness 1.0mm min., 60°C	UL 94, UL 746	UL

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		numbers and/or letter(s)			
Enclosure Material for top side around keyboard (Alternate)	NINGBO LG YONGXING CHEMICAL COLTD	LUPLOY GN-5001RFD	V-0, thickness 1.0mm min., 60°C	UL 94, UL 746	UL
LCD Panel	AUO	B140HAK03.2	14.0 inch, TFT type (LED Backlight)	--	Tested in the equip.
LCD Panel (Alternate)	Interchangeable	Interchangeable	14.0 inch, TFT type (LED Backlight)	--	--
HDD (Optional)	Western Digital Technologies Inc.	WYXXXXYY Y-YYXXYY, UYXXYYXX, HYYXXYYXXYY, YYY, DYXXYYXX (X, Y=0-9, A-Z, blank; not safety-relevant)	5/12 Vdc, 1.5/1.0 A Max.	EN 62368-1:2014	TUV, UL
HDD (Optional) (Alternate)	Interchangeable	Interchangeable	5/12 Vdc, 1.5/1.0 A Max.	EN 62368-1:2014	UL, TUV, VDE, Nemko
Solid State Drives (Optional) (Alternate)	SK hynix Inc.	HFSabcG32MN B-defgh, HFSabcG32MN D-defgh, HFSabcG32MN C-defgh, HFSabcG32ME D-defgh, HFSabcG32EE D-defgh (The suffix "abc" denoting memory capacity, "defgh" denoting buyer can be any, letter (A to Z) or number (0-9))	5Vdc, 2.0A max.	IEC 60950-1 A2:2013	CB by TUV (SG- OF- 14375)
Solid State Drives (Optional) (Alternate)	Samsung Electronics Co., Ltd.	MZ-5***** (* can be 0-9, A-Z, blank, slash or dash)	12Vdc, 0.5A	UL 60950-1, 2nd, IEC 60950-1: 2005 +A1+A2	UL, TUV, VDE, Nemko
Solid State Drives (Optional) (Alternate)	Samsung Electronics Co., Ltd.	MZ-C***** (* can be 0-9, A-Z, blank, slash or dash)	3.3 Vdc, 3.5 Amax.	IEC 60950-1: 2005+A1+A2	CB by TUV Rh (JPTUV- 086923)
Solid State Drives (Optional) (Alternate)	Interchangeable	Interchangeable	5Vdc, 2.0 A max. or 3.3 Vdc, 3.5 Amax. or 12Vdc, 0.5A	UL 60950-1, 2nd, IEC 60950-1:2005 +A1+A2	UL, TUV, VDE, Nemko
SSHD (Optional) (Alternate)	Seagate Technology Inc.	ST9 with additional suffix, 2.5 Series	5Vdc, 1.5 A max.	IEC 60950-1: 2005+A1+A2	CB by UL (US- 24632- UL)
SSHD (Optional) (Alternate)	Interchangeable	Interchangeable	5Vdc, 1.5 A max.	UL 60950-1, 2nd, IEC 60950-1: 2005 +A1+A2	UL, TUV, VDE, Nemko
Rechargeable Li-ion Battery Pack	CELXPRT ENERGY CORP	L17C3P52	11.1Vdc, 45Wh, 4120mAh	UL 60950-1, 2nd Edition,	UL, CB by Demko (DK- 65913-

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Rechargeable Li-ion Battery Pack (Alternate)	LG CHEM, LTD. (*)	L17L3P52	11.1Vdc, 45Wh or 4050mAh (Nom.) or 3880mAh (Min.)	UL 60950-1, 2nd Edition, IEC 60950-1/ A2:2013, IEC 62133:2012 (2nd Edition) , UL 2054, UL 62368-1, 2nd Edition IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 64954- A1-UL), (DK-53297-A5- UL), (DK-65534-A1-UL)
Rechargeable Li-ion Battery Pack (Alternate)	SIMPLO TECHNOLOGY CO LTD	L17M3P53, L17M3P54	11.1Vdc, 4.08Ah or 4.12Ah or 45Wh	UL 60950-1, 2nd Edition, IEC 60950-1/ A2:2013, IEC 62133:2012 (2nd Edition) , UL 2054, UL 62368-1, 2nd Edition IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 64478- A1-UL), (DK-64480-A1- UL), (DK-65142-A1-UL)
DC Fan (for MB1, MB2)	Asia Vital Components Co., Ltd.	BAPA0705R5HY008	5Vdc, 0.5A, 3.45 CFM min	UL507, EN 62368-1: 2014/A11: 2017	UL, TUV
DC Fan (for MB1, MB2) (Alternate)	Toshiba Home Technology Corp.	C-267C-2	5Vdc, 0.35A, 2.8 CFM min	UL507, EN 62368-1: 2014/A11: 2017	UL, TUV
DC Fan (for MB3)	Asia Vital Components Co., Ltd.	BAPA0705R5HY020	5Vdc, 0.5A, 3.17 CFM min	UL507, EN 62368-1: 2014/A11: 2017	UL, TUV
DC Fan (for MB3) (Alternate)	Toshiba Home Technology Corp.	M-269C-4	5Vdc, 0.29A, 2.5 CFM min	UL507, EN 62368-1: 2014/A11: 2017	UL, TUV
Motherboard - RTC battery (Lithium type)	Interchangeable PANASONIC CORPORATION , PANASONIC CORPORATION OF NORTH AMERICA	Interchangeable CR2032* (* - Cell model numbers may be followed by an optional slash (/) and single or multiple	See below 3.0Vdc, Maximum abnormal charging current 10mA	-- UL 1642	Tested in the equip. UL (MH12210)

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		alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging, etc.)			
- RTC battery (Lithium type)	Maxell, Ltd	CR2032, CR2032* (* - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH12568)
- RTC battery (Lithium type) (Alternate)	FDK CORPORATION	CR2032 (I)* (I) - The cells or batteries may come with an optional single or multiple alphanumeric suffixes denoting various pin, tab, cap, or wire termination types. For model CR17450ES, Suffix "K" shall not be used. * - These cells may have various insulating tube, ring or tape.	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH13421)
- RTC battery (Lithium type) (Alternate)	VARTA MICROBATTERY GMBH	CR2032	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH13654)
- RTC battery (Lithium type) (Alternate)	MITSUBISHI ELECTRIC CORP	CR2032+ (+ - The cells may have various insulating tube, ring, or tape.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH15370)
- RTC battery (Lithium type) (Alternate)	VIC-DAWN ENTERPRISE CO LTD (Trademark:KTS)	CR2032	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH20550)
- RTC battery (Lithium type) (Alternate)	Interchangeable	CR2032 or CR2032* or CR2032+ or CR2032 (I)*	3Vdc, Maximum abnormal charging current 10mA, against charging current by multiple components D2002 and R2001 (for (MB1,	UL 1642	UL

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			MB2) rated 1k ohm; D4402 and R4401 (for MB3) rated 10k ohm.		
- Power Distribution Switch (U5401) provided for HDMI port use	DIODES INC	AP2552, AP2553 maybe followed by A, maybe followed by additional letters and/or numbers.	Input Voltage: 2.7 - 5.5 Vdc Output Continuous Rating: 0 - 2.1 A Output Current Limit: 104 - 3020 mA	UL 2367, IEC 60950-1/ A2:2013	UL, CB by UL (US- 24721-UL)
- Power Distribution Switch (U5401) provided for HDMI port use(Alternate)	DIODES INC	AP2552, AP2552A, AP2553, and AP2553A, may be followed by additional letters, numbers, and/or a '-'	Input Voltage: 2.7 - 5.5 Vdc Output Continuous Rating: 0 - 2.1 A Output Current Limit: 104 - 3020 mA	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 34481-UL)
- Power Distribution Switch (U5401) provided for HDMI port use(Alternate)	Global Mixed-mode Technology Inc.	G517ALX1X2X3X4 X1=1 or 2, X2=TP, TB, RB or U5, X3=1, 2 or 3, X4=U or D	Input Voltage Range: 2.7-5.5 Vdc Operational Current Rating per output: 0.1A- 2.15A Overcurrent Protection Current Rating per output: 0.2A-2.75A	UL 2367, IEC 60950-1/ A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV-080887), (JPTUV-099276)
- Power Distribution Switch (U5401) provided for HDMI port use(Alternate)	TEXAS INSTRUMENTS INC	TPS2552, TPS2552- 1, TPS2553, TPS2553-1	Input Voltage: 2.5 Vdc to 6.5 Vdc Output Continuous Rating: 1.5 A Output Current Limit: 1.7 A	UL 2367, IEC 60950-1/ A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 24603-UL), (US-34989-UL)
- Power Distribution Switch (U6901) provided for USB ports use	DIODES INC	PI5USB25wwwxyyEz Series, where ww is 44 or 46; x is blank, A or H; yyy is ZH or ZHD for the packaging type; E is Pb-free; and z is blank or X.	Input Voltage: 4.5 - 5.5 Vdc Continuous Rating: 30 mA to 2.5 A Current Limit: 100 mA to 3.18 A	UL 2367, IEC 60950-1/ A2:2013	UL, CB by UL (US- 24707- M2-UL)
- Power Distribution Switch (U6901) provided for USB ports use (Alternate)	TEXAS INSTRUMENTS INC	SN1408009RTE, SN1702001, TPS2543, TPS2544, TPS2545, TPS2546, and TPS2547, may be followed by additional characters that do not impact the	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 2.5 A Output Current Limit: 3.1 A	UL 2367, IEC 60950-1/ A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 29689-M1- UL), (US-35117-UL)

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		safety features of the device.			
- Power Distribution Switch (U5901) provided for USB Type-C ports and Docking-station connector use	TEXAS INSTRUMENTS INCORPORATED	SN1810003, SN1810004, SN1905001, SN1905002, SN1905003, SN1905004, SN1905005, SN1905006, SN1905007, SN1905008, SN1908005, SN2001023, SN2001024, SN2001025, SN2001026, SN2001027, SN2001028, SN2001029, TPS65993, and TPS65994, may be followed by additional characters that do not affect the safety features of the device	Input Voltage: 4.9 - 5.5 Vdc Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9 to 3.0A PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315A Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78A PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66A	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US-34737-M2-UL)
- Power Distribution Switch (U5901) provided for Docking-station connector use	TEXAS INSTRUMENTS INCORPORATED	SN1701012, SN1702027, SN1702030, SN1702033, SN1702036, SN1708021, SN1710007, SN1711019, SN1802028, SN1805041, SN1805042, SN1805043, SN1805050, SN1806026, SN1809012, SN1809013, SN1809014, SN1809015, SN1809016, SN1809017, SN1809018, SN1809019, SN1809020, SN1809021, SN1809022, SN1809023, SN1809024, SN1809025, SN1809026, SN1809027, SN1809028, and TPS65988	Input Voltage: 1. PPHV1: 4.5 to 22 Vdc, 1 to 4 A 2. PPHV2: 4.5 to 22 Vdc, 1 to 4 A 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A 4. PPCABLE2: 2.95 to 5.5 Vdc, 0.6 A 5. VIN_3V3: 3.3 Vdc Output Continuous Rating: 1. VBUS1: 4.5 to 22 Vdc, 1 to 4 A with PPHV1 input 2. VBUS2: 4.5 to 22 Vdc, 1 to 4 A with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6 A with PPCABLE1 input 4. C2CC1/C2CC2:	UL 2367, IEC 60950-1/A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by UL (US-30473-A3-UL), (US-34617-UL)

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		Models may be followed by other characters that do not impact the safety feature of the device.	2.95 to 5.5 Vdc, 0.6 A with PPCABLE2 input Output Current Limit: 1. VBUS1: 4.5 to 22 Vdc, 1.39 to 4.91 A with PPHV1 input 2. VBUS2: 4.5 to 22 Vdc, 1.39 to 4.91 A with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.9 A with PPCABLE1 input 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.9 A with PPCABLE2 input Ambient: -40 to 75°C		
- PTC Polyswitch (F6201) provided for Docking Connector use	Littelfuse Inc.	0603L035	6Vdc, 0.35A	UL 1434, EN 60738-1-1, EN 60738-1, EN 60730-1	UL, TUV
- Fuse for Micro SD Card reader port (F7701) and smart card reader port (F7201) use	PANASONIC CORPORATION PANASONIC CORPORATION OF NORTH AMERICA	ERBRD1R00X	32Vdc, 1A	UL 248-1	UL
I/O board	Interchangeable	Interchangeable	See below.	--	--
- Power Distribution Switch (U2) for USB port use	SILERGY TECHNOLOGY (TAIWAN) INC	SY6288Cyyyyy, SY6288Dyyyyy (yyyyy = 0-9, A-Z or blank)	I/P: DC 2.5Vdc to DC 5.5Vdc (for all models) O/P: Continuous Rating: max. 2.5 A Output Current Limit: max., 4.4A max.	UL 2367, IEC 60950-1/A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 058243-M1), CB by Demko (DK- 86482-UL)
- Power Distribution Switch (U2) for USB port use (Alternate)	SILERGY TECHNOLOGY (TAIWAN) INC	SY6288C20AAC, SY6288D20AAC	Input Voltage: 2.5 to 5.5Vdc Output Continuous Rating: Max. 2.0A Current Limit Rating: 3.5A for CB; 3.8A for UL	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK-86482-UL)

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All PCBs	Interchangeable	Interchangeable	V-1 min, 105 °C min.	UL 796	UL
Speaker (Two provided) (Optional)	Interchangeable	Interchangeable	Generic, 3.6 ± 15% ohm min., 2.5 Watts max.	--	Tested in the equip.
Dummy for smart card reader (Optional)	MITSUBISHI ENGINEERING-PLASTICS CORP	MB1700+ (+ Suffix optional, exceptions: The following cannot be used as optional suffixes: "NF" for grade NXG5050, "N" for grade NXG5030, "N" for grade MB2112+, "S1" for grade F20-54, "V" for grades S-2000+(f1), S-2001+(f1), S-2003+(f1), the last letter "L" for grade CFH2520+.)	V-0, thickness 0.75mm min., 60°C	UL 94, UL 746	UL
Mesh for speaker opening	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860B	VTM-0, thickness 0.125-0.193 mm, 80 °C	UL 94, UL 746	UL
- Adhesive for speaker mesh	Jiangsu SIDIKEN New Materials Science & Technology Co Ltd	DS-5	--	--	Tested in the equip.
Mylar for docking opening	CHENGDU KANGLONGXIN PLASTICS CO LTD	H KLX FRPC-1860B	VTM-0, thickness 0.05-0.11 mm, 80 °C	UL 94, UL 746	UL
- Adhesive for docking Mylar	SUZHOU JIANYI TECH CO., LTD	JY-W001	--	--	Tested in the equip.
Rubber Stand	--	--	See below for details.	--	--
- Hard rubber (internal part)	Covestro Deutschland AG [PC Resins]	FR3021 + (+ - Material designations may be followed by a six digit numerical code denoting color.)	V-0, thickness 1.5 mm minimum, 85°C, fixed by hot melted.	UL 94, UL 746	UL
- Other rubber (external part)	Interchangeable	Interchangeable	Min. HB, located outside of enclosure.	--	--
- Other rubber (external part) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g max. or 1750mm ³ max.) located outside of enclosure.	--	--
IR LED module	Liteon OPTO Technology (CZ) Ltd.	LTE-R28206S-NE8, LTE-R28206S-NE8-XX ("XX" means different customer numbers)	Comply IEC 62471 exempt group	IEC 62471:2006	CB by SGS (BE-34640)

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IR LED module (Alternate)	Interchangeable	Interchangeable	Comply IEC 62471 exemptgroup	IEC 62471:2006 (First Edition)	CB
Adapter	ACBEL POLYTECH INC.	ADLX65YAC3D	I/P: 1.8A 100-240V~ 50-60Hz O/P: 20Vdc, 3.25A Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11:2017	UL, CB by Nemko (NO106182), (NO106181)
Adapter (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC2D	I/P: 1.8A 100-240V~ 50-60Hz O/P: 20Vdc, 3.25A Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11:2017	UL, CB by Nemko (NO106299), (NO106292)
Adapter (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Nemko (NO102312), CB by Demko (DK- 73335-UL)
Adapter (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I (with class II construction throughout), Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Nemko (NO102313), CB by Demko (DK- 73338-UL)
Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC2A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 096409), (JPTUV- 096534)

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Adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC3A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 096407), (JPTUV- 096521)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC3D, ADP-65XD B, ADLX65YDC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 088370), (JPTUV- 088549)
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YSDC2A, ADLX65YSDC3A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II (Class II with functional earth: ADLX65YSDC3A , Class II: ADLX65YSDC2A) , Ambient: 40°C, Altitude: 5000m	UL 60950-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 097420), (JPTUV- 097518)
Adapter (Alternate)	LITE-ON TECHNOLOGY CORP	ADLX65YLC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 73622-UL), (DK-73627- UL)
Adapter (Alternate)	LITE-ON TECHNOLOGY CORP	ADLX65YLC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 73466-M1- UL), (DK- 73473-M1- UL)
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YSLC2A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P:	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2),	UL, CB by TUVRH (JPTUV- 096377), (JPTUV- 096374)

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			20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	EN 62368-1: 2014/A11:2017	
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YSLC3A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUV RH (JPTUV-096300), (JPTUV-096303)
Adapter (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 3.25A, Tma: 35°C min., Altitude: 5000m	IEC 60950-1 (ed.2); am1, am2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB, UL
Enclosure for LCD cover and top side around keyboard	LG CHEM LTD	LUPOY GN-5151RF(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404- G, XR404-P and LUMILOY GN2108FI.	V-0, thickness 1.0 mm min., 60 oC	UL 94, UL 746	UL
Enclosure for LCD cover and top side around keyboard (Alternate)	NINGBO YONGXING CHEMICAL CO LTD	LUPOY GN-5151RF(#) (#) - May or may not be followed by suffix letter from A- Z inclusive, except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X	V-0, thickness 1.0 mm min., 60 oC	UL 94, UL 746	UL
Enclosure for LCD cover and top side around keyboard (Alternate)	LOTTE CHEMICAL CORPORATION	NH-1150(+) (+) - May be replaced by one, two, or three numbers and/or letter(s)	V-0, thickness 1.2 mm min., 60oC	UL 94, UL 746	UL

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Enclosure for LCD bezel	LG CHEM LTD	GN-5001RFD	V-0, thickness 0.9 mm min., 60 oC	UL 94, UL 746	UL
Enclosure for LCD bezel (Alternate)	NINGBO YONGXING CHEMICAL CO LTD	GN-5001RFD	V-0, thickness 0.9 mm min., 60 oC	UL 94, UL 746	UL
Enclosure for LCD bezel (Alternate)	LOTTE CHEMICAL CORPORATION	NH-1024(+) (+) - May be replaced by one, two, or three numbers and/or letter(s)	V-0, thickness 0.75 mm min., 60oC	UL 94, UL 746	UL
Enclosure for LCD bezel (Alternate)	Covestro Deutschland AG [PC Resins]	FR3002 + - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 0.9 mm min., 70oC	UL 94, UL 746	UL
Enclosure for bottom case	Covestro Deutschland AG [PC Resins]	FR3021 + - Material designations may be followed by a six digit numerical code denoting color.)	V-0, thickness 1.2 mm min., 85 oC	UL 94, UL 746	UL
Enclosure for bottom case (Alternate)	LG CHEM LTD	LUPOY GN-5151RF(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404- G, XR404-P and LUMILOY GN2108FI.	V-0, thickness 1.0 mm min., 60oC	UL 94, UL 746	UL
Sponge for thermal opening	CENTURY CREATION INTERNATIONAL CO LTD	CR-2030B	V-0, thickness 1.0 mm min.	UL 94	UL
- Adhesive for sponge	DEXERIALS CORP	G9000	--	--	Tested in the equip.
- Adhesive for sponge (Alternate)	3M CHINA CO LTD	9448A	--	--	Tested in the equip.
LCD Panel	BOE	NV140FHM-N4V V8.0	14.0 inch, TFT type (LED Backlight)	--	Tested in the equip.
LCD Panel (Alternate)	Interchangeable	Interchangeable	14.0 inch, TFT type (LED Backlight)	--	--
HDD (Optional)	HGST Japan, Ltd	HDS series	5/12 Vdc, 1.5/2.0 A Max.	IEC 60950-1: 2005/AMD2:	CB by TUVRh

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				2013, IEC 62368-1: 2014	
HDD (Optional)	Western Digital Technologies Inc.	WYXXXXXXYYY- YXXXXXX, UYXXXXXX, HYYYYXXXXXX YYY, DYXXXXXX (X, Y=0-9, A-Z, blank; not safety- relevant)	5/12 Vdc, 1.5/1.0 A Max.	EN 62368-1: 2014, UL 62368-1	TUV, UL
HDD (Optional) (Alternate)	Interchangeable	Interchangeable	5/12 Vdc, 1.5/2.0 A Max.	IEC 60950-1: 2005/AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11: 2017, UL 60950-1, UL 62368-1	UL, TUV, VDE, Nemko, CB
Solid State Drives (Optional) (Alternate)	SK hynix Inc.	HFSabcG32MNB- defgh, HFSabcG32MND- defgh, HFSabcG32MNC- defgh, HFSabcG32MED- defgh, HFSabcG32EED- defgh (The suffix "abc" denoting memory capacity, "defgh" denoting buyer can be any, letter (A to Z) or number (0-9))	5Vdc, 2.0A max.	IEC 60950-1/ A2:2013	CB by TUV
Solid State Drives (Optional) (Alternate)	Samsung Electronics Co., Ltd.	MZ-5***** (* can be 0-9, A-Z, blank, slash or dash)	12Vdc, 0.5A	UL 60950-1, 2nd, IEC 60950-1: 2005 +A1+A2	UL, CB by TUVRh
Solid State Drives (Optional) (Alternate)	Samsung Electronics Co., Ltd.	MZ-C***** (* can be 0-9, A-Z, blank, slash or dash)	3.3 Vdc, 3.5 A max.	IEC 60950-1: 2005+A1+A2	CB by TUVRh
Solid State Drives (Optional) (Alternate)	Interchangeable	Interchangeable	5Vdc, 2.0 A max. or 3.3 Vdc, 3.5 A max. or 12Vdc, 0.5A max.	IEC 60950-1: 2005/AMD2: 2013, IEC 62368-1: 2014,	UL, TUV, VDE, Nemko, CB

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				EN 62368-1: 2014/A11: 2017, UL 60950-1, UL 62368-1	
SSHD (Optional)	Seagate Technology Inc.	ST3 with additional suffix, 3.5 Series	5/12Vdc, 1.5 A max.	IEC 60950-1: 2005+A1+A2	CB by UL
SSHD (Optional) (Alternate)	Seagate Technology Inc.	ST9 with additional suffix, 2.5 Series	5Vdc, 1.5 A max.	IEC 60950-1: 2005+A1+A2	CB by UL
SSHD (Optional) (Alternate)	Interchangeable	Interchangeable	5/12Vdc, 1.5 A max. or 5Vdc, 1.5 A max.	IEC 60950-1: 2005/AMD2: 2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11: 2017, UL 60950-1, UL 62368-1	UL, TUV, VDE, Nemko, CB
DC Fan	Asia Vital Components Co.,Ltd.	BAPB0707R5HV ("V" can be ABCD where A, B, C, D may be A-Z, 0-9, "-" or blank)	5Vdc, 0.5A, 5.17 CFM min.	UL 507, EN 62368-1: 2014/A11: 2017	UL, TUV
DC Fan (Alternate)	Forcecon Tech. Co., Ltd.	DFS5K22B15673(Y) (Y) stands for 0-9, A- Z, "-" or blank.	5Vdc, 0.5A, 5 CFM min.	UL 507, EN 62368-1: 2014	UL, TUV
Rechargeable Li-ion Battery (2S1P)	Shanghai BYD Company Limited	L20B2PF0	7.68Vdc, Rated Capacity 4786mAh / 36.7Wh	UL 2054, UL 60950-1, UL 62368-1, IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017, IEC 62133-2: 2017, EN 62133-2: 2017	UL, CB by Demko (DK- 105172- UL), (DK-105198- M1- UL), (DK-103870- UL)
Battery Pack (2S1P) (Alternate)	CELXPRT ENERGY CORP	L20C2PF0	7.68Vdc, 4947mAh / 38Wh, 4786mAh / 36.7Wh	UL 2054, UL 62368-1, IEC 62368-1: 2014 (Second	UL, CB by Demko (DK- 105227- UL), (DK-104211- UL), (DK- 104481-UL)

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				2014+A11: 2017, IEC 62133:2012, IEC 62133-2: 2017, EN 62133-2: 2017	
Battery Pack (3S1P) (Alternate)	LG ENERGY SOLUTION, LTD. LG CHEM, LTD (*)	L20L3PF0	11.1Vdc, Typical: 4054mAh/45Wh, Rated Capacity: 3928mAh/43.6 Wh	UL 2054, UL 60950-1, UL 62368-1, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 62133:2012	UL, CB by Demko (DK- 103877- M1- UL), (DK- 102982- M1- UL), (DK-102948- UL)
Battery Pack (3S1P) (Alternate)	SIMPLO TECHNOLOGY CO LTD	L20M3PF0	11.1Vdc, 4054mAh/45Wh, 3964mAh/44Wh	UL 2054, UL 60950-1, UL 62368-1, IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017, IEC 62133:2012, IEC 62133-2: 2017, EN 62133-2: 2017	UL, CB by Demko (DK- 104324- UL), (DK-103771- UL), (DK- 104068-UL), (DK- 104081- UL)
Motherboard (MB1)	Interchangeable	Interchangeable	See below	--	--
- RTC battery (Lithium type)	MITSUBISHI ELECTRIC CORP	CR2032+ (+ - The cells may have various insulating tube, ring, or tape.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH15370)
- RTC Battery (Lithium type) (Alternate)	Interchangeable	CR2032 series	3Vdc, maximum abnormal charging current 10mA min,	UL 1642	UL

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			against charging current by multiple components PD102, PR107 (rated 1K ohm)		
- PTC Polyswitch (FV501) provided for HDMI port use	Littelfuse Inc.	1206L110THXXYY YYY (X stands for A to Z, 0 to 9, or blank. Y stands for A to Z, 0 to 9, or blank.)	8Vdc, 1.1A	UL 1434, IEC/EN 60738-1: 2006, IEC/EN 60738-1-1: 2008 IEC/EN 60730-1	UL, TUV
- PTC Polyswitch (FV501) provided for HDMI port use (Alternate)	Dongguan Electronic Technology Ltd.	TLC TLC-NSMD100 (x)	6Vdc, 1A	UL 1434, EN 60738-1-1:2008 EN 60738-1:2006+A1, EN 60730-1:2011	UL, TUV
- PTC Polyswitch (FV501) provided for HDMI port use (Alternate)	Bourns Inc.	MF-NSMF110	6Vdc, 1.1A	UL 1434, IEC/EN 62319-1-1:2005, IEC/EN 62319-1:2005, IEC/EN 60738-1:2006+A1, IEC/EN 60738-1-1:2008, EN 60730-1:2011, EN 60730-1:2010	UL, TUV
- Power Distribution Switch (U5701) for USB 3.0 port use	DIODES INC	PI5USB25wwxyyy Ez Series, where ww is 44 or 46 x is blank, A, AQ, H, J, or Q yyy is ZH or ZHD for packaging type E is Pb-free z is blank or X Cat. Nos. PI5USB2544ZHE, PI5USB2544ZHEX, PI5USB2544AZHE, PI5USB2544AZHEX, PI5USB2544ZHD, PI5USB2544ZHEX, PI5USB2544AZH, PI5USB2544AZHDEX,	Input Voltage: 4.5 - 5.5 Vdc Continuous Rating: 30 mA to 2.5 A Current Limit: 100 mA to 3.18 A	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US-38136-UL)

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		PI5USB2546ZHE, PI5USB2546ZHEX, PI5USB2546AZHE, PI5USB2546HZH E, PI5USB2546AZHE X, PI5USB2546ZHD E, PI5USB2546ZHD EX, PI5USB2546AZH DE, PI5USB2546AZH DEX, PI5USB2546HZH EX, PI5USB2546HZH DE, PI5USB2546HZH DEX, PI5USB2546QZH E, PI5USB2546QZH EX, PI5USB2546AQZ HE, PI5USB2546AQZ HEX, PI5USB2546JZHE , PI5USB2546JZHE X, PI5USB2546JZHD E, and PI5USB2546JZHD EX			
- Power Distribution Switch (U5701) for USB 3.0 port use (Alternate)	TEXAS INSTRUMENTS INC	SN1408009RTE, SN1702001, TPS2543, TPS2544, TPS2547, TPS2546, TPS2545 (Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.)	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 2.5 A Output Current Limit: 3.1 A	UL 2367, IEC 60950-1/ A2:2013 IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 29689-M1- UL), (US- 35117-UL)
- Power Distribution Switch (U5701) for USB 3.0 port use (Alternate)	Guangdong Cellwise Microelectronics Co., Ltd.	CW3042AAAD, CW3042AAAE, HP3048BAAQ, CW3048AAAQ,	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: Maximum	UL 2367, IEC 62368-1: 2014	UL, CB by Demko (DK- 108822- UL)

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		CW3048BAAQ, CW3046AAAQ	2.8 A Current Limit Rating: Maximum 3.17 A		
- Power Distribution Switch (U5701) for USB 3.0 port use (Alternate)	Fortune Advanced Technology Co	FA3200NTB, FA3200NTR, FA3210NTB, FA3210NTR	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 2.0 A Current Limit Rating: 2.7 A	UL 2367, IEC 62368-1: 2014 (Second Edition)	UL, CB by Demko (DK- 74299-UL)
- Power Distribution Switch (U6001) for USB Type-C port use	SILERGY TECHNOLOGY (TAIWAN) INC	SY6861B, followed by 1 or 2, followed by AB or AD, followed by C; SY6863B, followed by 1, 2, 3, 4, 5 or 6, followed by AB or AD, followed by C	Input Voltage: VIN = 2.5 to 5.5 Vdc Output Continuous Rating: 0.1 to 3 A Current Limit Rating: 0.3 to 5 A	UL 2367, IEC 60950-1/ A2:2013 IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 64454-A1- UL), (DK- 87012-UL)
- Power Distribution Switch (U6001) for USB Type-C port use (Alternate)	DIODES INC	AP22615AWU-7, AP22615BWU-7, AP22815AWT-7, AP22815BWT-7	Input Voltage/Output Continuous Rating: 3.0 - 4.0 Vdc; Iout = 1A - 1.5A 4.0 - 5.5 Vdc; Iout = 1A - 3A Output Current Limit: 3.0 - 5.5 Vdc; at 1.35A to 3.6A	UL 2367, IEC 60950-1/ A2:2013 IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 32144-A1- UL), (US- 32145-A1- UL)
- Power Distribution Switch (U6001) for USB Type-C port use (Alternate)	Fortune Advanced Technology Co Ltd	FA7615, FA7616, FA7626 f/b A, B, C, D, E, F, G, H, I or J, f/b A, f/b 5 or 6, f/b R	Input Voltage: 2.5 to 5.5 Vdc Output Continuous Rating: 3.0 A Current Limit Rating: 3.4 A	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 81343-M2- UL)
- Power Distribution Switch (U6001) for USB Type-C port use (Alternate)	NXP Semiconductor Taiwan Ltd.	NX5P3290UK/S90 0, NX5P3290UK	Input Voltage Range: 4.0 Vdc to 5.5Vdc Current Limit Rating: 3.3 A	UL 62368-1, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014	UL, CB by Demko (DK- 57975-A1- UL)
- Power Distribution Switch (UU2) for USB Type-C port use	REALTEK SEMICONDUCT OR CORP	RTS5441x (x = S to Z), RTS5444, RTS5444y (y = E to Z), RTS5467z (z= A to H)	Input Voltage: 4.75 to 5.5 Vdc Output Continuous Rating: VBUS_SW_OUT = 0.9 to 3.0A CC1/CC2 = 300mA Current Limit Rating:	UL 2367, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 81786-M1- UL)

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			VBUS_SW_OUT = 0.968 – 3.194A CC1/CC2 = 570mA		
Motherboard (MB2) (Alternate)	Interchangeable	Interchangeable	See below	--	--
- RTC battery (Lithium type)	MITSUBISHI ELECTRIC CORP	CR2032+ (+ - The cells may have various insulating tube, ring, or tape.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH15370)
- RTC Battery (Lithium type) (Alternate)	Interchangeable	CR2032 series	3Vdc, maximum abnormal charging current 10mA min, against charging current by multiple components PD102, PR107 (rated 1K ohm)	UL 1642	UL
- PTC Polyswitch (FV501) provided for HDMI port use	Littelfuse Inc.	1206L110THXXY YYYY (X stands for A to Z, 0 to 9, or blank. Y stands for A to Z, 0 to 9, or blank.)	8Vdc, 1.1A	UL 1434, IEC/EN 60738- 1: 2006, IEC/EN 60738- 1-1: 2008 IEC/EN 60730-1	UL, TUV
- PTC Polyswitch (FV501) provided for HDMI port use (Alternate)	Dongguan TLC Electronic Technology Ltd. Co.,	TLC-NSMD100 (x)	6Vdc, 1A	UL 1434, EN 60738-1- 1:2008 EN 60738- 1:2006+A1, EN 60730- 1:2011	UL, TUV
- PTC Polyswitch (FV501) provided for HDMI port use (Alternate)	Bourns Inc.	MF-NSMF110	6Vdc, 1.1A	UL 1434, IEC/EN 62319- 1-1:2005, IEC/EN 62319- 1:2005, IEC/EN 60738- 1:2006+A1, IEC/EN 60738- 1-1:2008, EN 60730- 1:2011, EN 60730- 1:2010	UL, TUV
- Power Distribution Switch (U6701) for USB 3.0 port use	TEXAS INSTRUMENTS INC	SN1408009RTE, SN1702001, TPS2543, TPS2544, TPS2547, TPS2546, TPS2545	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 2.5 A Output Current	UL 2367, IEC 60950-1/ A2:2013 IEC 62368-1: 2014, EN 62368-1;	UL, CB by UL (US- 29689-M1- UL), (US- 35117-UL)

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		(Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.)	Limit: 3.1 A	2014/A11:2017	
- Power Distribution Switch (U6701) for USB 3.0 port use (Alternate)	Guangdong Cellwise Microelectronics Co., Ltd.	CW3042AAAD, CW3042AAAE, HP3048BAAQ, CW3048AAAQ, CW3048BAAQ, CW3046AAAQ	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: Maximum 2.8 A Current Limit Rating: Maximum 3.17 A	UL 2367, IEC 62368-1: 2014	UL, CB by Demko (DK- 108822-UL)
- Power Distribution Switch (U6701) for USB 3.0 port use (Alternate)	Fortune Advanced Technology Co	FA3200NTB, FA3200NTR, FA3210NTB, FA3210NTR	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 2.0 A Current Limit Rating: 2.7 A	UL 2367, IEC 62368-1: 2014 (Second Edition)	UL, CB by Demko (DK- 74299-UL)
- Power Distribution Switch (U5601) for USB Type-C port use	NXP Semiconductor Taiwan Ltd.	NX5P3290UK/S90 0, NX5P3290UK	Input Voltage Range: 4.0 Vdc to 5.5Vdc Current Limit Rating: 3.3 A	UL 62368-1, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014	UL, CB by Demko (DK- 57975-A1-UL)
- Power Distribution Switch (UU1) for USB Type-C port use	Global Mixed-mode Technology Inc.	G517GX1X2X3X4, X1=1, 2, 3, or 4, X2=T1, TB, TO, TP or P8, X3=1,2 or 3, X4=U or D	Input Voltage Range: 2.7- 5.5Vdc Operational Current Rating per output: 3.0A at TA = 25oC / 2.5A at TA = 70oC Overcurrent Protection Current Rating per output: 3.1A- 4.0A / 2.6A- 4.0A	UL 2367, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+ A11: 2017	UL, CB by TUV Rh (JPTUV- 099276)
I/O Board	Interchangeable	Interchangeable	See below	--	--
- Power Distribution Switch (UU401) for USB 2.0 port use	SILERGY CORP.	SY6288Dyyyyy (yyyyy = 0-9, A-Z or blank)	I/P: 2.5Vdc to 5.5Vdc O/P: 5.5Vdc max.,	UL 2367, IEC 60950-1: 2005+Am1: 2009+Am2:	UL, CB by TUV Rh (JPTUV- 058243-M1)

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			4.4A max.	2013	
- Power Distribution Switch (UU401) for USB 2.0 port use (Alternate)	SILERGY TECHNOLOGY (TAIWAN) INC	SY6288D20AAC	Input Voltage: 2.5 to 5.5 Vdc Output Continuous Rating: Max. 2.0 A Current Limit Rating: 3.5 A	UL 2367, IEC 62368-1: 2014 (Second Edition)	UL, CB by Demko (DK- 86482-UL)
- Power Distribution Switch (UU401) for USB 2.0 port use (Alternate)	Global Mixed-mode Technology Inc.	G517FX1X2X3X4, X1=1, 2, 3, or 4, X2=T1, TB, TO, TP, U5, P8 or TM, X3=1,2 or 3, X4=U or D	Input Voltage Range: 2.7- 5.5Vdc Operational Current Rating per output: 2.1A Overcurrent Protection Current Rating per output: 2.2A- 3.0A	UL 2367, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+ A11: 2017	UL, CB by TUV Rh (JPTUV- 099276)
- Power Distribution Switch (UU401) for USB 2.0 port use (Alternate)	DIODES INC	AP22811AM8-13, AP22811AW5-7, AP22811BM8-13, AP22811BW5-7	Input Voltage: 2.7 - 5.5Vdc Output Continuous Rating: 2.0A Output Current Limit: 3.2A	UL 2367, IEC 60950-1: 2005+Am1: 2009+Am2: 2013, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+ A11: 2017	UL, CB by UL (US- 26790-A1- UL), (US- 34018-UL)
All PCBs	Interchangeable	Interchangeable	V-1 min, 105 oC min.	UL 796	UL
Speaker (Optional)	Interchangeable	Interchangeable	Generic, 4 ohm \pm 15 % min., 2.0 Watts max.	--	--
Decorative Part or rubber stand	Interchangeable	Interchangeable	Min. HB, located outside of enclosure.	UL 94	UL
Decorative Part or rubber stand (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g max. or 1750 mm ³ max.) located outside of enclosure.	--	--
01. Internal Plastic Part Materials	Interchangeable	Interchangeable	V-2 minimum or min.HF-2	UL 94, UL746C	UL , --
02. Flexible Printed Wiring	Interchangeable	Interchangeable	V-2 or VTM-2 minimum when no components mounted on surface.	UL 94, UL746C	UL , --

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02a. Flexible Printed Wiring(Alternate)	Interchangeable	Interchangeabe	V-2 or VTM-2 minimum when no components mounted on surface.	UL 94, UL746E	UL , --
02b. Flexible Printed Wiring(Alternate)	Interchangeable	Interchangeabe	Rated V-2 or VTM-2minimum, when no components mounted on surface;If components mounted on surface,it should be V-1 or VTM-1.	UL 796, UL796F	UL , --
03. Keycaps,plungers and housing, keyboard assembly	Interchangeable	Interchangeabe	Min. HB	UL 94	UL , --
04. Adapter(optional)	Interchangeable	Interchangeabe	O/P: 20Vdc, min. 3.25A, Tma = min 35 degree C. Altitude 3048m min.	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950-1,UL 62368-1	UL , CB by NCB
04a. Adapter (optional) (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC2D	I/P: 1.8A 100-240Vac, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A,40 degree C Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950-1,UL 62368-1	UL , CB by Nemko (NO106299 forIEC 60950-1); CB by Nemko (NO106292/A1/ M1 for IEC62368-1)
04b. Adapter (optional) (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC3D	I/P: 1.8A 100-240Vac, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A,40 degree C Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950-1,UL 62368-1	UL , CB by Nemko (NO106182/A1/ M1 for IEC 60950-1); CB by Nemko(NO1061 81/A1/M1 for IEC 62368-1)
04c. Adapter (optional) (Alternate)	Chicony Power Technology Co Ltd.	ADLX65YCC2D	I/P: 100-240Vac, 1.8A,	IEC 60950-1: 2005/AMD2:	UL , CB by Nemko (NO102312/A2/

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			50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A, 40 degree C Altitude: 5000m	2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950- 1,UL 62368-1	M2 for IEC 60950-1); CB by UL Demko (DK- 73335- M2-UL for IEC 62368-1)
04d. Adapter (optional) (Alternate)	Chicony Power Technology Co Ltd.	ADLX65YCC3D	I/P: 100- 240Vac, 1.8A, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A, 40 degree C Altitude:5000m	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950- 1,UL 62368-1	UL , CB by Nemko (NO102313/A2/ M1 for IEC 60950-1); CB by UL Demko (DK- 110807-UL for IEC 62368-1)
04g. Adapter (optional) (Alternate)	Delta Electronics Inc.	ADLX65YDC3 D, ADLX65YDC2D	I/P: 100- 240Vac, 1.8A, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A ClassII with functional earth for model: ADLX65YDC3D, Class II for model: ADLX65YDC2D, 40 degree C Altitude:5000m	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950- 1,UL 62368-1	UL , CB by TUVRH (JPTUV-088370-M3 for IEC 60950-1); CB by TUVRH (JPTUV- 088549- M3 for IEC62368-1)
04i. Adapter (optional) (Alternate)	Lite-On Technology Corporation	ADLX65YLC2D	I/P: 100- 240Vac, 1.8A, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A, 40 degree C Altitude:5000m	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC 62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950- 1,UL 62368-1	UL , CB by UL Demko (DK- 73622- M3-UL for IEC 60950-1); CB by UL Demko (DK- 73627-M3-UL for IEC 62368-1)
04j. Adapter (optional) (Alternate)	Lite-On Technology Corporation	ADLX65YLC3D	I/P: 100- 240Vac, 1.8A, 50-60Hz;O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A, 40	IEC 60950-1: 2005/AMD2: 2013,EN 60950-1: 2006+A11+A1 +A12+A2,IEC	UL , CB by UL Demko (DK- 73466- M3-UL for IEC 60950- 1); CB by UL Demko (DK- 73473-M3-UL for IEC

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			degree C. Altitude:5000m	62368-1 (ed.2),EN 62368-1: 2014/A11:2017 ,UL 60950- 1,UL 62368-1	62368-1)
04k. Adapter (optional) (Alternate)	ACBEL POLYTECH INC.	ADLX65UAGU 2A, ADLX65UAGC 2A, ADLX65UAGE 2A, ADLX65UAGK2A	I/P: 100- 240V~, 1.8A, 50- 60Hz O/P: 20.0Vdc, 3.25A Max. 65.0W, ClassII, Tma: 40°C, altitude: 5000m	IEC 62368-1: 2014 (Second Edition), UL 62368-1	UL , CB by Nemko (NO113168/M1 for IEC 62368-1)
04l. Adapter(optional) (Alternate)	Chicony Power Technology Co.,Ltd	ADLX65UCGU 2A, ADLX65UCGE 2A, ADLX65UCGC 2A, ADLX65UCGK 2A, ADLX65UCGG 2A, ADLX65UCGA 2A, ADLX65UCGB 2A, ADLX65UCGR 2A, ADLX65UCGI2A	I/P: 100- 240V~, 1.8A, 50- 60Hz O/P: 20.0Vdc, 3.25A Max. 65.0W, ClassII, Tma: 40°C, altitude: 5000m	IEC 62368-1: 2014 (Second Edition), IEC 62368-1: 2018 (Third Edition), UL 62368-1	UL , CB by TUVRh (JPTUV-109472-M3 for IEC62368- 1:2014), (JPTUV-109395- M3 for IEC60950- 1) CB by Demko (DK- 115729-M1- UL for IEC62368- 1:2018)
04m. Adapter (optional) (Alternate)	Delta Electronics Inc.	ADLX65UDGC2A, ADLX65UDGE2A, ADLX65UDGU2A, ADLX65UDGK2A	I/P: 100- 240V~, 1.8A, 50- 60Hz O/P: 20.0Vdc, 3.25A, 65.0W, Class II, Tma: 40°C, altitude: 5000m	IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017, IEC 60950-1: 2005, AM1: 2009, AM2: 2013	UL , CB by TUVRh (JPTUV-109368-M3 for IEC62368-1:2014, JPTUV- 109392-M3 for IEC60950-1)
04n. Adapter (optional) (Alternate)	Lite-On Technology Corporation	ADLX65ULGC2A, ADLX65ULGU2A, ADLX65ULGE2A, ADLX65ULGK2A, ADLX65ULGG2A, ADLX65ULGB2A, ADLX65ULGR2A ADLX65ULGI2A	Input : AC 100-240V; 50-60Hz; 1.8A; Class II, Output: DC 5.0V; 3.0A; 15.0W, 9.0V; 3.0A, 15.0V; 3.0A, ,DC 20.0V; 3.25A; 65.0W Tma: 40°C, altitude:5000m	IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017, IEC 62368-1: 2018, EN IEC 62368- 1: 2020+A11: 2020, IEC 60950-1: 2005, AM1: 2009, AM2: 2013	UL , CB by TUVRh (JPTUV-109477-M3 for IEC62368- 1:2014, JPTUV- 109148-M3 for IEC60950-1)

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05. Enclosure Material	--	--	See below for details	--	-- , --
05-01. Enclosure Material for top cover	COVESTRO DEUTSCHLANDAG [PC RESINS]	FR3021++ - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.2mm min., 85 degree C	UL 94UL 746C	UL , --
05-01a. Enclosure Material for top cover (Alternate)	LG Chem, Ltd	LUPOY GN-5151RF(#)-- (#)May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	V-0, thickness 1.0mm min., 60 degree C	UL 94UL 746C	UL , --
05-01b. Enclosure Material for top cover (Alternate)	NINGBO LG YONGXING CHEMICAL COLTD	LUPOY GN-5151RF(#)-- (#)May or may not be followed by suffix letter from A-Z inclusive, except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	V-0, thickness 1.0mm min., 60 degree C	UL 94UL 746C	UL , --
05-01c. Enclosure Material for top cover (Alternate)	--	--	Aluminium , thickness 0.8mmmin.	--	-- , --
05-02. Enclosure Material for LCD bezel	COVESTRO DEUTSCHLANDAG [PC RESINS]	FR3002++ - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.0mm min., 70 degree C	UL 94UL 746C	UL , --

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05-02a. Enclosure Material for LCD bezel (Alternate)	COVESTRO DEUTSCHLANDAG [PC RESINS]	FR3040++ - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 0.75mm min., 80 degree C	UL 94UL 746C	UL , --
05-03. Enclosure Material for top side around keyboard	COVESTRO DEUTSCHLANDAG [PC RESINS]	FR3021++ - Material designations may be followed by asix digit numerical code denoting color.	V-0, thickness 1.2mm min., 60 degree C	UL 94UL 746C	UL , --
05-04. Enclosure Material for bottom case	COVESTRO DEUTSCHLANDAG [PC RESINS]	FR3021++ - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.5mm min., 85 degree C	UL 94UL 746C	UL , --
05-04a. Enclosure Material for bottom case (Alternate)	LG CHEM LTD	LUPOY GN- 5151RF(#) (#) - May be followed by optional suffixletter from A-Z incl., except F,and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI	V-0,thickness 1.5mm min., 85 degree C	UL 94UL 746C	UL , --
05-04b. Enclosure Material for bottom case (Alternate)	NINGBO LG YONGXING CHEMICAL COLTD	LUPOY GN- 5151RF(#)--(#) May or may not be followed by suffix letter from A-Z inclusive, except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	V-0,thickness 1.5mm min., 60 degree C	UL 94UL 746C	UL , --
05-04c. Enclosure Material for bottom case(Alternate)	--	--	Aluminium, thickness 0.8mmmin.	--	-- , --

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05-05. Metalized coating (Optional)	Interchangeable	Interchangeable	For bottom case material "NINGBO LG YONGXING CHEMICAL CO LTD", type "LUPOYGN-5151RF(#)" or "COVESTRO DEUTSCHLAND AG [PC RESINS]", type "FR3021 +" or "LG CHEM LTD", type "LUPOYGN-5151RF(#)"	UL746C	UL , --
05-06. Openingsfor plastic enclosure	--	--	See Enclosure 4-01for detailed dimension.	--	-- , --
05-07. Openingsfor metal enclosure	--	--	See Enclosure 4-07for detailed dimension.	--	-- , --
06. LCD Panel	Interchangeable	Interchangeable	14 inch, TFT Type (with LED backlight)	IEC/ EN/ UL 60950-1, IEC/ EN/ UL 62368-1	UL , --
06a. LCD Panel (Alternate)	Interchangeable	Interchangeable	14 inch TFT Type(LED backlight)	--	-- , --
06a-1. Internal plastic materials	Interchangeable	Interchangeable	Min V-2	UL 94UL 746C	UL , --
06a-2. PWB	Interchangeable	Interchangeable	Min V-1, 105 degreeC	UL 796	UL , --

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07. DC Fan for Config A and config B	ASIA VITAL COMPONENTS CO LTD	BAPC0806Z5H V("Z" can be A,B,C,G,R,S,T or Y; "V" can be ABCD where A,B,C,D may be A-Z,0-9,or "-" or blank)	5Vdc, 0.5A, 2.3CFM min.	EN 62368-1: 2014/A11:2017	-- , TUV (B 025730 0892 Rev. 06)
07a. DC Fan for Config A (Alternate)	Toshiba Home Technology Corp.	C-271C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers(up to 2 digits)	5Vdc, 0.38A, 3.1CFM min.	UL 507, EN 62368-1: 2014/A11:2017	UL , TUV(B 025909 0087 Rev.01)
07b. DC Fan for Config B (Alternate)	Toshiba Home Technology Corp.	M-282C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers(up to 2 digits)	5Vdc, 0.38A, 2.3CFM min.	UL 507, EN 62368-1: 2014/A11:2017	UL , TUV(B 025909 0086 Rev.11
08. Battery pack	CELXPERT ENERGY CORP	L19C3PD5	11.34 Vdc, 4000mAh / 45Wh,3900mAh / 43Wh	UL 60950-1, UL 2054, IEC 62368-1, IEC 62133	UL , CB by UL: (DK-90509-UL for IEC 60950-1)(DK-90735-UL for IEC 62368-1:2014) (DK-90363-UL for IEC 62133: 2012)
08a. Battery Pack (Alternate)	SIMPLO TECHNOLOGY CO LTD	L19M3PD5	11.1Vdc, 4120mAh / 45Wh, 3980mA / 44Wh	UL 60950-1, UL 2054, IEC 62368-1, IEC 62133	UL , CB by UL: (DK-91800-UL for IEC 60950-1)(DK-91809-UL for IEC 62368-1:2014) (DK-91607-UL for IEC 62133: 2012)
08b. Battery Pack (Alternate)	LG Chem, Ltd.(*)	L19L3PD5	11.1Vdc, 4050mAh /45Wh or 3920mAh / 43Wh	UL 60950-1, UL 2054, IEC 62368-1:2014, IEC 62133:2012, IEC 62133-2: 2017	UL , CB by UL:(DK-91796-M1-UL for IEC 62368-1:2014)(DK-90969-UL for IEC 62133: 2012); DK-91975-M1-UL for IEC 62133-2:2017
08c. Battery pack(Alternate)	SUNWODA ELECTRONIC CO.,LTD.	L19D3PD5	11.1Vdc, Typical Capacity 4055mAh/45Wh, Rated Capacity 3874mAh/43Wh	UL 60950-1, UL 2054, IEC 62368-1, IEC 62133	UL , CB by UL:(DK-90844-M1-UL for IEC 60950-1)(DK-90816-M1-UL for IEC 62368-1:2014) (DK-90436-UL for IEC

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					62133: 2012)
08d. Battery pack(Alternate)	CELXP PERT ENERGY CORP	L20C3PD4	11.52Vdc, 4948mAh / 57Wh, 4861mAh / 56Wh	IEC 62368-1:2014, IEC 62133-2:2017, UL2054, UL62368-1	UL , CB by UL: (DK-109842 -UL for IEC 62368-1:2014; DK-109536-UL for IEC 62133)
08e. Battery pack(Alternate)	SUNWODA ELECTRONIC CO.,LTD.	L20D3PD4	11.52Vdc, Typical Capacity 4948mAh/57 Wh, Rated Capacity 4861mAh/56Wh	IEC 60950-1, IEC 62368-1:2014, IEC 62133-2:2017, UL 62368-1, UL 2054,	UL , CB by TUV RH(JPTUV- 119801) for IEC 62368-1; (JPTUV-119799)for IEC 60950-1;JPTUV-119461-A1 for IEC 62133-2:2017
08f. Battery pack(Alternate)	SIMPLO TECHNOLOGY CO LTD	L20M3PD4	11.52Vdc, 4948mAh / 57Wh, 4861mAh / 56Wh	UL 62368-1, UL 2054, IEC 62368-1, IEC 62133-2:2017	UL , CB by UL: (DK-109437 -ULfor IEC 62368-1:2014; DK-109218-UL for IEC 62133)
08g. Battery Pack (Alternate)	LG Energy Solution LTD	L19L3PD5	11.1Vdc, 4050mAh /45Wh or 3920mAh / 43Wh	UL 2054, IEC 62368-1:2018, IEC 62133-2:2017	UL , CB by UL:(DK-111981-ULfor IEC 62368-1:2018) (DK-91975-M1-UL for IEC 62133-2)
08h. Battery Pack (Alternate)	LG Energy Solution LTD	L20L3PD4	11.52Vdc, Typ.: 4948mAh/57Wh, Rated: 4861mAh/56Wh	UL 2054, IEC 62368-1:2018, IEC 62133-2:2017	UL , CB by UL:(DK-118292-ULfor IEC 62368-1:2018) (DK-118271-UL for IEC 62133-2)
09. Mainboard	--	--	See below	--	-- , --
09-01. Heat sink (Thermal module)	--	--	Cooper and aluminu m. See the Enclosure ID 4-02 and 4-06	--	-- , --
09-02. RTC Battery (Lithium type)	Interchangeable	CR2032 or CR2032* or CR2032+ or CR2032 (I)* or CR2032 (j)(k)	3Vdc, Maximu m abnorm al chargin g	UL 1642	UL , --

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			current 10mA		
09-03. ProtectorIC provided for HDMI port use	TEXAS INSTRUMENTSINC	TPS2552, TPS2552-1, TPS2553, TPS2553-1	Input Voltage: 2.5Vdc to 6.5Vdc Output Continuous Rating: 1.5A. Output Current : 1.7A	UL 2367, IEC 60950-1:2005/AMD1: 2009, IEC 60950-1:2005/AMD2: 2013, IEC 60950-1:2005	UL , CB by UL(US-24603-A1-UL)
09-03a. ProtectorIC provided for HDMI port use (Alternate)	TEXAS INSTRUMENTSINC	AP2553, AP2552-maybe followed by A, maybe followed by additional letters and/or numbers., AP2553A, AP2552A-may be followed by additional letters, numbers, and/or a '-'	Input Voltage: 2.7 - 5.5 Vdc Output Continuous Rating: 0 - 2.1 A Output Current Limit: 104 - 3020 mA Ambient: -40 to 85°C	IEC 62368-1:2014, UL 2367	UL , CB by UL(US-34481-UL)
09-04. ProtectorIC for Type C USB port use	TEXAS INSTRUMENTSINC	Models SN1701012, SN1702027, SN1702030, SN1702033, SN1702036, and TPS65988 may be followed by other characters that do not impact the safety feature of the device.	Input Voltage: 1. PPHV1: 4.5 to 22 Vdc, 1 to 4 A 2. PPHV2: 4.5 to 22 Vdc, 1 to 4 A 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A 4. PPCABLE2: 2.95 to 5.5 Vdc, 0.6 A 5. VIN_3V3: 3.3 Vdc Output Continuous Rating: 1. VBUS1: 4.5 to 22 Vdc, 1 to 4A with PPHV1 input2. VBUS2: 4.5 to 22 Vdc, 1 to 4 A with PPHV2	IEC 60950-1 (ed.2); am2, EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2: 2013, UL2367	UL , CB by UL(US-30473-A3-UL)

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			input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6A with PPCABLE1 input 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.6A with PPCABLE2 input Output Current Limit: 1. VBUS1: 4.5to 22 Vdc, 1.39 to 4.91 A with PPHV1 input 2. VBUS2: 4.5to 22 Vdc, 1.39 to 4.91 A with PPHV2input 3. C1CC1/C1CC2 : 2.95 to 5.5 Vdc, 0.9A with PPCABLE1 input 4. C2CC1/C2C C2: 2.95 to 5.5 Vdc, 0.9A with PPCAB LE2 input		
09-04a. ProtectorIC for Type C USB port use(Alternate)	Global Mixed-mode Technology Inc.	G3712X1X2X3 X4X1 = A,B,C,D or null;X2 = B6;X3 = 1 or 2;X4 =U or D	DC 4.0V-5.5V, Operational current:0.4A- 3.0A, overcur rent protecti on current: 1A-4A.	IEC 60950-1 :2005+A1+A2; EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013, UL2367	UL , CB by TUV(JPTUV-094198- A1)
09-04b. ProtectorIC for Type C USB port use(Alternate)	NXP Semiconductor Taiwan Ltd.	NX5P3290UK	Input Voltage Range:4.0Vdc to 5.5Vdc Current LimitRating: 3.3A	IEC 62368- 1(ED.2),EN 62368- 1:2014,UL 62368-1	UL , CB by UL Demko (DK-57975- UL)
09-04c. ProtectorIC for Type C USB port use(Alternate)	TEXAS INSTRUMENTS INCORPORATED	SN2001024, TPS65994 may be followed by additional characters thatdo not affect the	(Optional) Input Voltage: 4.9 - 5.5 Vdc Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9	UL 2367,IEC 62368-1:2014	UL , CB by UL US (US- 34737-M3-UL)

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		safety features of the device.	to 3.0A PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315A Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78A PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66A		
09-04d. Protector IC for Type C USB port use (Alternate)	DIODES INC	AP22615AWU-7	Input Voltage/Output Continuous Rating: 3.0 - 4.0 Vdc; I _{out} = 1A - 1.5A 4.0 - 5.5 Vdc; I _{out} = 1A - 3A Output Current Limit: 3.0 - 5.5 Vdc; at 1.35A to 3.6A	UL 2367, IEC 62368-1:2014	UL, CB by UL US (US-32145-A1-UL)
09-04e. Protector IC for Type C USB port use (Alternate)	SILERGY TECHNOLOGY (TAIWAN) INC	SY6863B followed by 1, 2, 3, 4, 5 or 6, followed by A or AD, followed by C	Input Voltage: VIN = 2.5 to 5.5 Vdc Output Continuous Rating: 0.1 to 3 A Current Limit Rating: 0.3 to 5 A	IEC 60950-1:2005+A1+A2; EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013, UL2367	UL, CB by UL Demko (DK- 64454-A1-UL)
09-04f. Protector IC for Type C USB port use (Alternate)	TEXAS INSTRUMENTS INCORPORATED	SN2011060 may be followed by additional characters that do not affect the safety features of the device	(Optional) Input Voltage: 4.9 - 5.5 Vdc, Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9 to 3.0A PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315A Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78A PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66A* Only 1 path within a pair are	IEC 62368-1:2014, UL 2367	UL, CB by UL (US-38687-UL)

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			active at one time		
09-05. ProtectorIC for USB portuse	SILERGY CORP	SY6288xyyyy(x = A, B, C, D or E; yyy = 0-9, A-Z or blank)	I/P: 2.5Vdc to 5.5Vdc (for all models)O/P: SY6288A, SY6288B: 5.5Vdc max., 1.6A max.SY6288C, SY6288D: 5.5Vdc max., 4.4A max.SY6288E: 5.5Vdc, 4.43A max.	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013, UL2367	UL , CB by TUV(JPTUV-058243-M1)
09-05a. ProtectorIC for USB portuse (Alternate)	Global Mixed-mode Technology Inc.	G517FX1X2X3 X4X1 = 1, 2, 3or 4X2 = T1, TB, TO, TP, U5, P8 or TMX3 = 1, 2 or3X4 =U or D	Input Voltage: 2.7- 5.5Vdc Output Continuous Rating: 2.1A,Output CurrentLimit: 2.2-3.0A	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013, UL2367	UL , CB by TUV (JPTUV-080887)
09-05b. ProtectorIC for USB portuse (Alternate)	Global Mixed-mode Technology Inc.	G517EX1X2X3 X4X1 = 1, 2, 3 or 4X2 = T7,T1, TB, TO,TP, KF,U5 or TMX3 = 1, 2 or 3X4 =U or D	Input Voltage: 2.7- 5.5Vdc Output Continuous Rating: 1.5A,Output CurrentLimit: 1.6-2.0A	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2:2013, UL2367	UL , CB by TUV (JPTUV-080887)
09-05c. ProtectorIC for USB port use (Alternate)	TEXAS INSTRUMENTS INC	SN1408009R T E, SN1702001, TPS2547, TPS2544, TPS2546, TPS2545, TPS2543Additional suffixes after the modelnumber designate the type of integrated circuit package,integrated circuit lead types or other features that are considerednot to affect the functionality of the device.	Input Voltage: 4.5Vdc to 5.5Vdc Output Continuous Rating: 2.5A. Output Current Limit:3.1A	IEC 60950-1 (ed.2);am2,EN 60950-1: 2006 / A11: 2009 / A1: 2010 / A12: 2011 / A2: 2013, UL 2367	UL , CB by UL (US-29689-M1-UL)

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09-05d. ProtectorIC for USB port use (Alternate)	DIODES PERICOM TECHNOLOGY(SHANGHAI) CO LTD	PI5USB25wwx yyyEz Series, where ww is 44or 46; x is blank, A or H; yyy is ZH or ZHD for the packaging type; E is Pb- free; and z is blank or X.	Input Voltage:4.5Vdc to 5.5Vdc Continuous Rating: 30mA to 2.5A. Current Limit:100mA to 3.18A	IEC 60950-1(ed.2);am2,EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013, UL 2367	UL , CB by UL (US-24707-M2-UL)
09-05e. ProtectorIC for USB port use (Alternate)	DIODES INC	PI5USB25wwx yyyEz Series, where ww is 44or 46 x is blank, A, AQ, H, J, or Q yyy is ZH or ZHD for packaging type E is Pb- free z is blank or X	Input Voltage:4.5Vdc to 5.5Vdc Continuous Rating: 30mA to 2.5A. Current Limit:100mA to 3.18A	IEC 62368-1:2014, UL 2367	UL , CB by UL(US-38136-UL)
09-05f. ProtectorIC for USB port use (Alternate)	Guangdong Cellwise Microelectronics Co., Ltd.	CW3042AAAD, CW3042AAAE, HP3048BAAQ, CW3048AAAQ , CW3048BAAQ , CW3046AAAQ	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: Maximum 2.8 A Current Limit Rating: Maximum 3.17 A	IEC 62368-1:2014, UL 2367	UL , CB by UL (DK-108822-UL)
09-05g. ProtectorIC for USB port use (Alternate)	WILL SEMICONDUCTOR	1) WS4612EBx-5/TR, 2) WS4612ECx-5/TR, 3) WS4612EDx-5/TR, 4) WS4612EEEx-5/TR (x can be A, B, C or D, A for EN high enable & Discharge, Bfor EN low enable & Discharge, Cfor EN high enable & no Discharge, Dfor EN low enable & no Discharge.)	Input Voltage: 2.5 to 5.5 Vdc, Current Limit Rating:1) 1.2-1.6A; 2) 1.8-2.4A; 3) 2.1-2.7A; 4) 2.7-3.3A	IEC 62368-1:2014, UL 2367	UL , CB by UL (DK-88459-M1-UL)
09-05h. ProtectorIC for USB port use (Alternate)	DIODES INC	AP22804BW5-7 may be followed by additional letters and/or numbers	Input Voltage: 2.7 - 5.5Vdc Output Continuous Rating: 2.5A Output Current Limit: 3.3A	IEC 62368-1:2014, UL 2367	UL , CB by UL US (US-34018-UL)

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10. Mylar for Aluminium bottom opening	SICHUAN DONGFANG INSULATING MATERIAL COLTD	DFR117,DFR1 17EOA,DFR1 17ECOB,DFR1 17ECOC	VTM-0, 0.05mm-0.23mm thickness,80 degree C. See Enclosure 4-08 for detailed dimension.	UL94, UL746C	UL , --
10-01. Adhesivefor Aluminium bottom opening gmylar	JIANGSU SIDIKE NEW MATERIALS SCIENCE & TECHNOLOGY COLTD	DS-5	--	--	-- , --
10a. Mylar for Aluminium bottom opening(Alternate)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC- 1860B, KLXFRPC-1860	VTM-0,thickness 0.125-0.193 mm,80 degree C, See Enclosure 4-08 for detailed dimension.	UL94, UL746C	UL , --
10a-01. Adhesive for Aluminium bottom opening mylar(Alternate)	JIANGSU SIDIKE NEW MATERIALS SCIENCE & TECHNOLOGY COLTD	DS-5	--	--	-- , --
11. Mesh for speaker opening	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC- 1860, KLX FRPC-1860B	VTM-0, thickness 0.125-0.193 mm, 80 degree C. See Enclosure 4-06 for detailed dimension.	UL94, UL746C	UL , --
11-01. Adhesivefor speaker mesh	JIANGSU SIDIKE NEW MATERIALS SCIENCE & TECHNOLOGY COLTD	DS-5	--	--	-- , --
11a. Mesh for speaker opening(Alternate)	SICHUAN DONGFANG INSULATING MATERIAL COLTD	DFR117,DFR1 17EOA,DFR1 17ECOB,DFR1 17ECOC	VTM-0, 0.05mm-0.23mm thickness,80 degree C. See Enclosure 4-06 for detailed dimension.	UL94, UL746C	UL , --
11a-01. Adhesive for speaker mesh(Alternate)	JIANGSU SIDIKE NEW MATERIALS SCIENCE & TECHNOLOGY COLTD	DS-5	--	--	-- , --

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12. Rubber Standfor Aluminium bottom	--	--	See below for details;	--	-- , --
12-01. Hard rubber for Aluminium bottom (internalpart)	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR3021++ - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.2mm min., 60 degree C	UL 94UL 746C	UL , --
12-01a. Hard rubber for Aluminium bottom (internalpart) (Alternate)	LG CHEM LTD	LUPOY GN-5151RF(#)-- (#)May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	V-0, thickness 1.2mm min., 85 degree C	UL 94UL 746C	UL , --
12-01b. Hard rubber for Aluminium bottom (internalpart) (Alternate)	NINGBO LG YONGXING CHEMICAL CO LTD	LUPOY GN-5151RF(#)-- (#) May or may notbe followed by suffix letter from A-Z inclusive, except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	V-0,thickness 1.2mm min., 60 degree C	UL 94UL 746C	UL , --
13. IR LEDmodule (Optional)	Liteon OPTO Technology (CZ) Ltd.	LTE-R28206S-NE8, LTE-R28206S-NE8-XX , LTE- R28206S-YE8 , LTE- R28206S-YE8-XX ("XX" means different customer numbers)	Comply IEC 62471exempt group	IEC 62471:2006	-- , CB by SGS (Certificate No.:BE-34640)
13a. IR LED module of camera (Optional)(Alternate)	Liteon OPTO Technology (CZ) Ltd.	LTE- R28206AS-Q , LTE- R28206AS-Y , LTE- R28206AS-Q-XX,	Comply IEC 62471exempt group	IEC 62471:2006	-- , CB by SGS (Certificate No.:BE-33598/M1)

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		LTE- R28206AS-Y-XX("XX" means different customer numbers)			
13b. IR LED module of camera (Optional)(Alternate)	Liteon OPTO Technology (CZ) Ltd.	LTE-R28206S-ME8-XX, LTE-R28206S-ME8, LTE-R28206S-KE8-XX, LTE-R28206S-KE8, LTE-R28206S, LTE-10L470- M6-XX, LTE- 10L370-M5- XX, LTE- R273090X-M5-XX("XX" means different customers)	Comply IEC 62471exempt group	IEC 62471:2006	-- , CB by SGS (Certificate No.:BE-36784/M1)
14. Solid State Drive (Optional)	Interchangeable	Interchangeable	3.3V,3.5A max.	IEC/UL 60950-1, IEC/UL 62368-1	UL , CB by NCB
14a. Solid State Drive(Optional)(Alternate)	Samsung Electronics Co., Ltd.	MZ-V*****	3.3Vdc, 3.5A	IEC/UL 62368-1	UL , TUV (JPTUV-097719-M1)
15. Speaker (two provided)	--	--	Each Rated 4 ohm,2 Watts max.	--	-- , --
16. Label	Interchangeable	Interchangeable	60 degree C min, suitable to rear plastic enclosure.	UL969	UL , --
16a. Label (Alternate)	--	--	Molded as part of enclosure, Hot stamping, laser etching or silk screened.	--	-- , --
17. Wiring, (Internal, Secondary)	Interchangeable	Interchangeable	Minimum 30V, 80 degree C, VW-1.	UL 758	UL , --

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18. Connectors and Receptacles (SELV Circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum.	UL 94, UL746C	UL , --
18a. Connectors and Receptacles (SELV Circuits) (Alternate)	Interchangeable	Interchangeable	--	UL 1977	UL , --
19. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Minimum 60 degreeC, 30V minimum, maximum 3.05m long, suitable for external use. Marked VW-1 or FT-1 or better.	UL 758	UL , --
19a. Interconnecting Cable (Optional) (Alternate)	Interchangeable	Interchangeable	Suitable for external use. Type CMP, CMR, CMG, or CM. For type CMX, or CMUC, maximum 3.05m long.	UL 444	UL , --
20. PCB for touch pad	Interchangeable	Interchangeable	V-0 min. 105 degreeC min.	UL796	UL , --
21. Internal metal	--	--	Metallic	--	-- , --
22. All other PCB	Interchangeable	Interchangeable	V-1 min. 105 degreeC min.	UL796	UL , --
Adapter (Optional)	Acbel Polytech Inc.	ADLX45YAC2D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO105856), (NO105995)

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Adapter (Optional) (Alternate)	Acbel Polytech Inc.	ADLX45YAC3D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO105842), (NO105937)
Adapter (Optional) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC2G	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102327/A2/ M1), CB by Demko (DK- 73341-M2-UL)
Adapter (Optional) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3G	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class I (with class II construction throughout), Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Nemko (NO102328/A1/ M1), CB by Demko (DK- 73342-M1-UL)
Adapter (Optional) (Alternate)	Delta Electronics, Inc.	ADLX45YDC3D, ADLX45YDC2D	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 20Vdc, 2.25A, Class II with functional earth for model: ADLX45YDC3D, ADP-45EG B; Class II for model: ADLX45YDC2D, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by TUVRH (JPTUV- 088399), (JPTUV- 088525)
Adapter (Optional) (Alternate)	Lite-On TechnologyCorp	ADLX45YLC2D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class II, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 74396-UL), (DK-74550-UL)
Adapter (Optional) (Alternate)	Lite-On TechnologyCorp	ADLX45YLC3D	I/P: 100-240Vac, 50-60Hz, 1.3A; O/P: 20Vdc, 2.25A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	CB by Demko (DK- 73964-UL), (DK-73960-UL)

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Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 2.25A Tma: 35°C min. Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB
Adapter (Optional) (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC2D	I/P: 1.8A 100-240V~ 50-60Hz O/P: 20Vdc, 3.25A Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11:2017	UL, CB by Nemko (NO106299), (NO106292)
Adapter (Optional) (Alternate)	ACBEL POLYTECH INC.	ADLX65YAC3D	I/P: 1.8A 100-240V~ 50-60Hz O/P: 20Vdc, 3.25A Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11:2017	UL, CB by Nemko (NO106182), (NO106181)
Adapter (Optional) (Alternate)	CHICONY POWER TECHNOLOGYCO LTD	ADLX65YCC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Nemko (NO102312), CB by Demko (DK- 73335-UL)
Adapter (Optional) (Alternate)	CHICONY POWER TECHNOLOGYCO LTD	ADLX65YCC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I (with class II construction throughout), Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Nemko (NO102313), CB by Demko (DK- 73338-UL)
Adapter (Optional) (Alternate)	Delta Electronics, Inc.	ADLX65YDC3D , ADLX65YDC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A,	UL 60950-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2),	UL, CB byTUVRH (JPTUV- 088370), (JPTUV- 088549)

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			Class II, Ambient: 40°C, Altitude: 5000m	EN 62368-1: 2014/A11:2017	
Adapter (Optional) (Alternate)	LITE-ON TECHNOLOGY CORP	ADLX65YLC2D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 73622- UL), (DK- 73627-UL)
Adapter (Optional) (Alternate)	LITE-ON TECHNOLOGY CORP	ADLX65YLC3D	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by Demko (DK- 73466- M1-UL), (DK-73473-M1-UL)
Adapter (Optional) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC2 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB byTUVRH (JPTUV- 096409), (JPTUV- 096534)
Adapter (Optional) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC3 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB byTUVRH (JPTUV- 096407), (JPTUV- 096521)
Adapter (Optional) (Alternate)	Delta Electronics, Inc.	ADLX65YSDC2 A, ADLX65YSDC3 A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class II (Class II with functional earth: ADLX65YSDC3 A, Class II: ADLX65YSDC2 A), Ambient: 40°C, Altitude: 5000m	UL 60950-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB byTUVRH (JPTUV- 097420), (JPTUV- 097518)
Adapter (Optional) (Alternate)	Lite-On TechnologyCorp	ADLX65YSLC2A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A,	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2),	UL, CB byTUVRH (JPTUV- 096377), (JPTUV- 096374)

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			Class II, Ambient: 40°C, Altitude: 5000m	EN 62368-1: 2014/A11:2017	
Adapter (Optional) (Alternate)	Lite-On TechnologyCorp	ADLX65YSLC3A	I/P: 100-240Vac, 50-60Hz, 1.8A; O/P: 20Vdc, 3.25A, Class I, Ambient: 40°C, Altitude: 5000m	UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017	UL, CB by TUVRH (JPTUV- 096300-A1), (JPTUV- 096303-A1)
Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 3.25A, Tma: 35°C min., Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368- 1: 2020, EN IEC 62368- 1: 2020/A11: 2020	UL, CB
Adapter (Optional) (Alternate)	Lite-On Technology Corporation	ADL100YLC3A	I/P: 100-240Vac, 50- 60Hz, 1.6A O/P: 20.0Vdc, 5.0A, 100.0W, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11: 2017	CB by TUVRh (JPTUV- 128232), (JPTUV- 128376)
Adapter (Optional) (Alternate)	CHICONY POWER TECHNOLOGYCO LTD	ADL100YCC3A	I/P: 100-240Vac, 1.6A, 50-60Hz O/P: 20.0V, 5.0A 100.0W, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2018, EN IEC 62368- 1: 2020, EN IEC 62368- 1: 2020/A11: 2020	CB by Demko(DK- 120447- UL), (DK- 120464-UL)
Adapter (Optional) (Alternate)	ACBEL POLYTECH INC.	ADL100YAC3A	I/P: 100-240Vac, 1.6A, 50-60Hz O/P: 20.0Vdc 5.0A, Max.100W, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), IEC 62368-1: 2018	CB by NEMKO (NO119957), (NO119934), (NO119956)

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Adapter (Optional) (Alternate)	Delta Electronics, Inc.	ADL100YDC3A	I/P : AC 100-240V; 50-60Hz; 1.5A; O/P: DC 20.0V, 5.0A, Class I, Ambient: 40°C, Altitude: 5000m	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017, IEC 62368-1: 2018, EN IEC 62368- 1: 2020+A11: 2020	CB by TUVRh(JPTUV- 129198), (JPTUV- 129197), (JPTUV- 129097)
Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P: 20Vdc, 5A, Tma: 35°C min., Altitude: 5000m	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368- 1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB
Enclosure Material for LCDtop cover (AL type, main area)	Interchangeable	Interchangeable	Aluminium Alloy, thickness 1.0mm min.	--	--
Enclosure Material for LCDtop cover (AL type, frame area)	LOTTE CHEMICAL CORPORATION	NH-1024(+) (+) - May be replaced by one, two, or three numbers and/or letter(s)	V-0, thickness 0.75mm min., 60°C	UL 94, UL 746	UL
Alt. Enclosure Material for LCDtop cover (Plastic type, main area)	SABIC JAPAN LL C	DC0051	V-0, thickness 0.8mm min., 80°C	UL 94, UL 746	UL
Alt. Enclosure Material for LCDtop cover (Plastic type, uparea)	SABIC JAPAN LL C	DF00A11	V-0, thickness 1.0mm min., 80°C	UL 94, UL 746	UL
Enclosure Material for LCDbezel, internal plastic frame of AL type bottom case	MITSUBISHI ENGINEERING- PLASTICS CORP	MB1700+ (+ - Suffix optional, exceptions: The following cannot be used as optional suffixes:"NF" for grade NXG5050,	V-0, thickness 0.75mm min., 60°C	UL 94, UL 746	UL

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		"N" for grade NXG5030, "N" for grade MB2112+, "S1" for grade F20- 54, "V" for grades S- 2000+(f1), S- 2001+(f1), S- 2003+(f1), the last letter "L" for grade CFH2520+, "W" for ELV2010 included in Grade ELV20(a5)+.)			
- Adhesive for internal plastic frame of AL type bottom case	Devcon	14167	--	--	--
Enclosure Material for topside around keyboard	SABIC JAPAN LL C	DF00A1I	V-0, thickness 1.0mm min., 80°C	UL 94, UL 746	UL
Enclosure Material for topside around keyboard (frame area)	Interchangeable	AZ91D	Al-Mg alloy, thickness 0.8mm min.	--	--
Enclosure Material for smart card slot, SIM card tray	Covestro Deutschland AG [PC Resins]	FR3002 + (+ - Material designations may be followed by a six digit numerical code denoting color.)	V-0, thickness 1.0mm min., 70°C	UL 94, UL 746	UL
Enclosure Material for bottom case(AL type)	Interchangeable	Interchangeable	Aluminium, thickness 0.6mm min.	--	--
Alt. Enclosure Material for bottom case (Plastic type)	TORAY INDUSTRIES INC	A695H	V-0, thickness 0.8mm min., 130°C	UL 94, UL 746	UL
Metallized Coating (Optional)	JIECHENG INDUSTRY (HUI ZHOU) CO LTD	PVD	Minimum 0.2mm and maximum 2.0mm coating thickness suitable for	UL 746C	UL

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			bottom case (Plastic type) material		
MetallizedCoating (Optional) (Alternate)	SUZHOU CHUNQIU ELECTRONIC TECHNOLOGYCO LTD	Sputtering	Minimum 0.2mm and maximum 2.0mm coating thickness suitable for bottom case (Plastic type) material	UL 746C	UL
MetallizedCoating (Optional) (Alternate)	Interchangeable	Interchangeable	Minimum 0.2mm and maximum 2.0mm coating thickness suitable for bottom case (Plastic type) material	UL 746C	UL
Sponge for thermal opening	CENTURY CREATION INTERNATIONAL CO LTD	CR-2030B	V-0, thickness 1.0mm min.	UL 94, UL 746	UL
- Adhesive for sponge on AVC, Delta fan	DEXERIALS CORP (SONY)	G9000R, G9000- SY	--	--	--
- Adhesive for sponge on Toshiba fan	NITTO DENKO	No.5000NS	--	--	--
- Adhesive for sponge on Toshiba fan (Alternate)	NITTO DENKO	V-100S	--	--	--
LCD Panel	AUO	B140QAN05.0	14.0 inch, TFT type (LED Backlight)	--	Tested in the equip.

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LCD Panel (Alternate)	Interchangeable	Interchangeable	14.0 inch, TFT type (LED Backlight)	--	--
Solid State Drive (Optional)	SK hynix Inc.	HFS001TDE9X0 80N, HFS001TDE9X0 73N, HFS001TDE9X0 84N, HFS001TDE9X0 81N, HFS512GDE9X 080N, HFS512GDE9X 073N, HFS512GDE9X 084N, HFS512GDE9X 081N, HFS256GDE9X 080N, HFS256GDE9X 073N, HFS256GDE9X 084N, HFS256GDE9X 081N	3.3Vdc, 2.5A	UL 62368-1, IEC 62368-1: 2018	UL, CB by TUVSUD (SG PSB-IV-02155)
Solid State Drive (Optional) (Alternate)	Interchangeable	Interchangeable	Generic, 3.3Vdc, 2.5A max.	UL 60950-1, UL 62368-1, IEC 60950-1/ A2:2013, IEC 62368-1: 2014 (ed.2), EN 62368-1: 2014/A11:2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB
RechargeableLi-ion Battery (3S1P)	CELXPRT ENERGY CORP	L21C3P71	11.58 Vdc, Typical Capacity 3400mAh / 39.3Wh, Rated Capacity 3304mAh / 38.2Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 62368-1: 2018, EN IEC 62368- 1: 2020, EN IEC 62368- 1: 2020/A11: 2020	UL, CB by Demko (DK- 119323- UL), (DK-119583-UL)

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RechargeableLi-ion Battery (3S1P) (Alternate)	LG ENERGY SOLUTION, LTD.	L21L3P71	11.58Vdc, Typ.: 3400mAh / 39.3Wh, Rated: 3304mAh / 38.2Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK- 118944-UL), (DK-119248-UL)
RechargeableLi-ion Battery (3S1P) (Alternate)	SIMPLO TECHNOLOGYCO LTD	L21M3P71	11.61Vdc, 3392mAh / 39.3Wh or 3295mAh / 38.2Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK-118297-UL),(DK-118369-UL), (DK- 118423-UL)
RechargeableLi-ion Battery (4S1P)	CELXPRT ENERGY CORP	L21C4P71	15.44Vdc, 3400mAh / 52.5Wh, 3304mAh / 51Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK- 119336-UL), (DK-119662-UL)
RechargeableLi-ion Battery (4S1P) (Alternate)	LG ENERGY SOLUTION, LTD.	L21L4P71	15.44Vdc, Typ.: 3400mAh / 52.5Wh, Rated: 3304mAh / 51Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK- 118989-UL), (DK-119091-UL)

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RechargeableLi-ion Battery (4S1P) (Alternate)	SIMPLO TECHNOLOGY CO., LTD.	L21M4P71	15.48Vdc, Typical Capacity 3392mAh/ 52.5Wh, Rated Capacity 3295mAh/ 51Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, EN 62133-2: 2017, IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK-118960-UL),(DK-119209-UL), (DK- 119206-UL)
RechargeableLi-ion Battery (4S1P) (Alternate)	SIMPLO TECHNOLOGYCO LTD	L21M4P72	15.48Vdc, 3392mAh / 52.5Wh, 3295mAh / 51Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017, IEC 60950-1: 2005, AMD1: 2009, AMD2: 2013, IEC 62368-1: 2018, EN IEC 62368-1: 2020, EN IEC 62368-1: 2020/A11: 2020	UL, CB by Demko (DK-119215-UL),(DK-119293-UL), (DK- 119505-UL)
RechargeableLi-ion Battery (4S1P) (Alternate)	Zhejiang Sunwoda Electronic Co.,Ltd.	L21D4P71	15.48V, Rated: 3295mAh, 51Wh/ Typical: 3392mAh, 52.5Wh	UL 2054, UL 62368-1, IEC 62133-2: 2017+A1, IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014, EN 62368-1: 2014+A11: 2017	UL, CB by TUVRh (JPTUV-128620), (JPTUV- 128786), (JPTUV- 128783)
DC Fan for UMA Motherboard	Delta Electronics, Inc.	ND85C45XXXX XXXXXXX (X stands for A-Z, 0-9, - or blank, for marketing purpose only)	5Vdc, 0.5A, 2.0 CFM min.	UL 507, EN 62368-1: 2014, IEC 62368-1: 2014	UL, TUVRh
DC Fan for UMA Motherboard (Alternate)	Toshiba Home Technology Corp.	M-280C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers (1 or 2 digits))	5Vdc, 0.38A, 2.5 CFM min.	UL 507, EN 62368-1: 2014/A11: 2017	UL, TUVSUD

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DC Fan for UMA Motherboard (Alternate)	Asia Vital Components Co.,Ltd.	BAPA0906R5HV ("V" can be ABCD where A,B, C, D may beA-Z, 0-9, "-" or blank)	5Vdc, 0.5A, 4.41 CFM min.	UL 507, EN 62368-1: 2014/A11: 2017	UL, TUVSUD
DC Fan for DIS Motherboard	Toshiba Home Technology Corp.	M-279C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers (1 or 2 digits))	5Vdc, 0.38A, 3.1 CFM min.	UL 507, EN 62368-1: 2014/A11: 2017	UL, TUVSUD
DC Fan for DIS Motherboard (Alternate)	Delta Electronics, Inc.	ND85C35XXXX XXXXXXX (X stands for A- Z, 0-9, - or blank, for marketing purpose only)	5Vdc, 0.5A, 5.3 CFM min.	UL 507, EN 62368-1: 2014, IEC 62368-1: 2014	UL, TUVRh
DC Fan for DIS Motherboard (Alternate)	Asia Vital Components Co.,Ltd.	BAPA0907R5HV ("V" can be ABCD where A,B, C, D may beA-Z, 0-9, "-" or blank)	5Vdc, 0.5A, 5.35 CFM min.	UL 507, EN 62368-1: 2014/A11: 2017	UL, TUVSUD
Motherboard	Interchangeable	Interchangeable	See below	--	--
- RTC battery (Lithium type)	MITSUBISHI ELECTRIC CORP	CR2016+ (+ - The cells may have various insulating tube,ring, or tape.)	3.0Vdc, Maximum abnormal charging current10mA	UL 1642	UL (MH15370)
- RTC battery (Lithium type) (Alternate)	MITSUBISHI ELECTRIC HOME APPLIANCE CO LTD	CR2016	3.0Vdc, Maximum abnormal charging current10mA	UL 1642	UL (MH21249)
- RTC battery (Lithium type) (Alternate)	PANASONIC CORPORATION , PANASONIC CORPORATION OF NORTH AMERICA	CR2016*, CR-2016*; * - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting	3.0Vdc,Maximum abnormal charging current10mA	UL 1642	UL (MH12210)

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		tabs, connecting leads or plugs, packaging, etc.			
- RTC battery (Lithium type) (Alternate)	TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION	CR2016* * - Cells may have various pin, tab, insulating tube, ring and tape.	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH12828)
- RTC battery (Lithium type) (Alternate)	Interchangeable	CR2016 or CR2016+ or CR2016* or CR-2016*	3Vdc, Maximum abnormal charging current 10mA, against charging current by multiple components R2301 (1k ohm resistor), D2301 (diode)	UL 1642	UL
- Power Distribution Switch (U5302) provided for HDMI port use	TEXAS INSTRUMENTS INC	TPS2552, TPS2552-1, TPS2553, TPS2553-1, may be followed by additional characters that do not impact the safety features of the device.	Input Voltage: 2.5 Vdc to 6.5 Vdc Output Continuous Rating: 1.5 A Output Current Limit: 1.7 A	UL 2367, IEC 60950-1/A2:2013, IEC 62368-1:2014, EN 62368-1:2014/A11:2017	UL, CB by UL (US-24603-UL), (US-34989-UL)
- Power Distribution Switch (U5302) provided for HDMI port use (Alternate)	Global Mixed-mode Technology Inc.	G517ALX1X2X3 X4, X1=1 or 2, X2=TP, TB, RB or U5, X3=1, 2 or 3, X4=U or D	Input Voltage: 2.7 Vdc to 5.5 Vdc Output Operational Current Rating per output: 0.1A-2.15A Overcurrent Protection Current Rating per output: 0.2A-2.75A	UL 2367, IEC 60950-1:2005+Am1:2009+Am2:2013, IEC 62368-1:2014 (Second Edition), EN 62368-1:2014+A11:2017	UL, CB by TUV Rh (JPTUV-080887), (JPTUV-099276)
- Power Distribution Switch (U5901) provided for USB Type-C port use	TEXAS INSTRUMENTS INCORPORATED	SN2011035, SN2011058, SN2011062, SN2011063, SN2101026, SN2101027, SN2103033, SN2101014, SN2101015, SN2101023, SN2101019, SN2101013, SN2101012, SN2101011,	Input Voltage: 4.9 - 5.5 Vdc Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9 to 3.0A PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315A	UL 2367, IEC 62368-1:2014, EN 62368-1:2014/A11:2017, EN 62368-1:2014	UL, CB by UL (US-38687-UL)

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		SN2010021, SN2011034, SN2011052, SN2011059, SN2011060, SN2011061, SN1810003, SN1810004, SN1905001, SN1905002, SN1905003, SN1905004, SN1905005, SN1905006, SN1905007, SN1905008, SN1908005, SN2001021, SN2001022, SN2001023, SN2001024, SN2001025, SN2001026, SN2001027, SN2001028, SN2001029, SN2006001, SN2006002, SN2006003, TPS65993, and TPS65994, may be followed by additional characters that do not affect the safety features of the device	Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78A PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66A *Only 1 path within a pair are active at one time		
- Power Distribution Switch (U6701) provided for USB port use	TEXAS INSTRUMENTS INC	SN1408009RTE, SN1702001, TPS2543, TPS2544, TPS2545, TPS2546, and TPS2547, may be followed by additional characters that do not impact the safety features of the device.	Input Voltage: 4.5 to 5.5Vdc Output Continuous Rating: 2.5 A Output Current Limit: 3.1 A	UL 2367, IEC 60950-1/ A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 29689-M1- UL), (US-35117-UL)
- Power Distribution Switch (U6701) provided for USB port use (Alternate)	DIODES INC	PI5USB25wwxy yyEz Series, where ww is 44 or 46; x is blank, A, AQ, H, J, or Q; yyy is ZH or ZHD for packaging type; E is Pb-free;	Input Voltage: 4.5 - 5.5 Vdc Continuous Rating: 30 mA to 2.5 A Current Limit: 100 mA to 3.18A	UL 2367, IEC 60950-1/ A2:2013, IEC 62368-1: 2014, EN 62368-1: 2014/A11:2017	UL, CB by UL (US- 24707-M2- UL), (US-37272-UL)

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		andz is blank or X, Cat. Nos. PI5USB2544ZHE, PI5USB2544ZH EX, PI5USB2544AZ HE, PI5USB2544AZ HEX, PI5USB2544ZHDE , PI5USB2544ZH DEX, PI5USB2544AZ HDE, PI5USB2544AZ HDEX, PI5USB2546ZHE, PI5USB2546ZH EX, PI5USB2546AZ HE, PI5USB2546HZ HE, PI5USB2546AZ HEX, PI5USB2546ZH DE, PI5USB2546ZH DEX, PI5USB2546AZ HDE, PI5USB2546AZ HDEX, PI5USB2546HZ HEX, PI5USB2546HZ HDE, PI5USB2546HZ HDEX, PI5USB2546QZ HE, PI5USB2546QZ HEX, PI5USB2546AQ ZHE, PI5USB2546AQ ZHEX, PI5USB2546JZ HE, PI5USB2546JZ HEX, PI5USB2546JZ HDE, and PI5USB2546J ZHDEX			
- Power Distribution Switch (U6701) provided for USB port use (Alternate)	Guangdong Cellwise Microelectronics Co., Ltd.	CW3042AAAD , CW3042AAAE , HP3048BAAQ ,	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating:	UL 2367, IEC 62368-1: 2014	UL, CB by Demko (DK-108822- UL)

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		CW3048AAA Q, CW3048BAA Q, CW3046AAA Q	Maximum 2.8 A Current Limit Rating: Maximum 3.17 A		
- Fuse for smartcard reader port(F9307) use	PANASONIC CORPORATION , PANASONIC CORPORATION OF NORTH AMERICA	ERBRD* (* - Followed bysuffixes.)	32Vdc, 1A	UL 248-1	UL (E194052)
- Fuse for smartcard reader port(F9307) use (Alternate)	LITTELFUSEINC	497* (* - With or without one prefix character and with or without additional suffix characters that signify options that do not affect the electrical characteristics)	32Vdc, 1A	UL 248-1	UL (E10480)
- Fuse for smartcard reader port(F9307) use (Alternate)	AEM COMPONENTS (SUZHOU) CO LTD	T0402FF1000, followed by T or B, maybe followed by M, maybe followed by any five digit of letter, number, symbol or blank. (Note - Microfuses are defined as fuses with all principle dimensions less then 10 mm.)	35Vdc, 1A	UL 248-1	UL (E232989)
I/O Board	Interchangeable	Interchangeable	See below	--	--
- Power Distribution Switch (U101) provided for USB port use	TEXAS INSTRUMENTS INCORPORATED	TPS2069x (Where 'x' is C or D. May be followed by other characters that do not impact the safety feature	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 1.5A Output Current Limit: 2.7A	UL 2367, IEC 62368-1: 2014	UL, CB by UL (US- 34988-UL)

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		of the device.)			
- Power Distribution Switch (U101) provided for USB port use (Alternate)	ROHM CO LTD	BD82032FVJ, BD82033FVJ designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.	Input Voltage - 4.5 to 5.5Vdc Output Continuous Current Rating: 1.5A Output Current Limit: 2.3A	UL 2367, IEC 60950-1: 2005+Am1: 2009+Am2: 2013, IEC 62368-1: 2014	UL, CB by UL (JP-12176-UL), (JP-21381-UL)
All PCBs	Interchangeable	Interchangeable	V-1 min, 105°C min.	UL 796	UL
Speaker (Two provided) (Optional)	Interchangeable	Interchangeable	Generic, 4.0 +/- 20% ohm min., 2.5 Watts max.	--	--
Rubber Stand	Interchangeable	Interchangeable	See below for details.	--	--
- Hard rubber (internal part)	Covestro Deutschland AG [PC Resins]	FR3006 HF + - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.8 mm min., 60°C, fixed by hot-melted.	UL 94, UL 746	UL
- Other rubber (external part)	Interchangeable	Interchangeable	Min. HB, located outside of enclosure.	UL 94	UL
- Other rubber (external part) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g max. or 1750mm ³ max.) located outside of enclosure.	--	--

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IR LED module	Liteon OPTO Technology (CZ) Ltd.	LTE-R28206S-ME8-XX; LTE-R28206S-ME8; LTE-R28206S-KE8-XX; LTE-R28206S-KE8; LTE-R28206S ("XX" means different customers)	Comply IEC 62471 exempt group	IEC 62471:2006	CB by SGS (BE-36784)
IR LED module (Alternate)	Interchangeable	Interchangeable	Comply IEC 62471 exempt group	IEC 62471:2006 (First Edition)	CB
Dongle - Lenovo HDMI to VGA Monitor Adapter (Optional)	Lenovo (Beijing) limited / trademark: Lenovo	CH7101B-02, LT8511	Rating is not necessary	IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014/A11:2017	CB by Demko (DK-106336-UL)
Dongle - Lenovo USB C to Ethernet Adapter(Optional)	Lenovo (Beijing) limited / trademark: Lenovo	RTL8153-04	Rating is not necessary	IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014/A11:2017	CB by Demko (DK-106480-UL)
Dongle - Lenovo USB-C to DisplayPortAdapter (Optional)	Lenovo (Beijing) limited / trademark: Lenovo	CYPD2119-01	Rating is not necessary	IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014/A11:2017	CB by Demko (DK-106516-UL)
Dongle - USB-Cto VGA Adapter (Optional)	Luxshare Precision Industry Co., Ltd. / trademark: Lenovo	RTD2166-CG3	5Vdc	IEC 60950-1: 2005 (Second Edition) + Am 1: 2009 + Am 2: 2013	CB by TUVRh (JPTUV-088901)
S01. Label	Interchangeable	Interchangeable	Maximum 60 degree C, suitable for surface applied.	UL 969:2018	UL , --
S01a. Label (Alternate)	--	--	Molded as part of enclosure, Hot stamping, laser etching or silk screened.	--	-- , --
S01b. Label (Alternate)	--	--	Rating was engraved on the enclosure directly.	--	-- , --

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S01c. Label (Alternate)	--	--	Laser carved on enclosure directly.	--	-- , --
01. Adapter (Optional) (Alternate)	Delta Electronics, Inc. (Lenovo)	ADLX65YDC3 D, ADLX65YDC2 D, ADP-65XD B	Input: 100-240V~, 1.8A, 50-60Hz; Output: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014	UL , CB by TUV
01a. Adapter (Optional) (Alternate)	Delta Electronics, Inc. (Lenovo)	ADLX65YSDC 3A, ADLX65YSDC 2A	Input: 100-240V~, 1.8A, 50-60Hz; Output: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014, IEC 62368-1:2018	UL , CB by TUV
01b. Adapter (Optional) (Alternate)	Chicony Power Technology Co., Ltd. (Lenovo)	ADLX65YSCC 3A	Input : AC 100-240V; 50-60Hz; 1.8A; Class I, Output: 3A/5V or 3A/9V or 3A/15V or 3.25A/20V	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014, IEC 62368-1:2018	UL , UL , CB by TUV, CB by UL
01c. Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	Output: DC 5V/2A or 3A, 9V/2A or 3A, 15V/3A, 20V/3.25A	UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014, IEC 62368-1:2018	UL , CB by NCB
01d. Adapter (Optional) (Alternate)	LITE-ON TECHNOLOGY CORP	ADLX45YLC3 D, 4X20M26256, PA-1450-30XX (where X = A-Z, 0-9, or - or blank)	Input: 100-240Vac, 50-60Hz, 1.3A Output: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014, IEC 62368-1:2018	UL , UL , CB by Nemko, CB by UL
01e. Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	Output: DC 5V/2A or 3A, 9V/2A or 3A, or 15V/3.0A or 20V/2.25A	UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014, IEC 62368-1:2018	UL , CB by NCB

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02. Enclosure	--	--	See Enclosure 4-01 for detailed dimension, and see below for detailed materials.	--	-- , --
02-01. Enclosure Material for Top Cover	LG CHEM LTD	GN-5001RFD, LUPOY GN-5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-01a. Enclosure Material for Top Cover (Alternate)	LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD	GN-5001RFD, LUPOY GN-5151RF(#) (#) – May be followed by optional suffiz letter from A-Z, except F.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-01b. Enclosure Material for Top Cover (Alternate)	LG CHEM POLAND SP Z OO	GN-5001RFD, LUPOY GN-5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades AF302G, HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --

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02-01c. Enclosure Material for Top Cover (Alternate)	02-01c. Enclosure Material for Top Cover (Alternate)	MITSUBISHI ENGINEERING- PLASTICS CORP	TMB1615++ - Suffix optional, exceptions: The following cannot be used as optional suffixes: "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u),"S1" for F20-54, "R" for grade MB2211, "V" for grades S-2000+(f1), S- 2001+(f1), S- 2003+(f1).	Minimum V-0, thickness 1.0mm minimum, RTI 85 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-01d. Enclosure Material for Top Cover (Alternate)	02-01d. Enclosure Material for Top Cover (Alternate)	LG CHEM LTD	LUPOY GN- 2403F(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	Minimum V-0, thickness 0.8mm minimum, RTI 80 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-01e. Enclosure Material for Top Cover (Alternate)	02-01e. Enclosure Material for Top Cover (Alternate)	LG Chem (Guangzhou) Engineering Plastics Co Ltd	LUPOY GN- 2403F(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades AF302G, HT700B, XR401B, LI912A,	Minimum V-0, thickness 0.8mm minimum, RTI 80 degree C	UL 94: 2013 UL 746C: 2018	UL , --

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		AF303G, AF303S.			
02-01f. Enclosure Material for Top Cover (Alternate)	--	--	Aluminum, Alloy of Aluminum, thickness 0.8mm minimum	--	-- , --
02-02. Enclosure Material for LCD Bezel	MITSUBISHI ENGINEERING- PLASTICS CORP	TMB1615++ - Suffix optional, exceptions: The following cannot be used as optional suffixes: "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u), "S1" for F20-54, "R" for grade MB2211, "V" for grades S- 2000+(f1), S- 2001+(f1), S- 2003+(f1).	Minimum V-0, thickness 1.0mm minimum, RTI 85 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-02a. Enclosure Material for LCD Bezel (Alternate)	MITSUBISHI ENGINEERING- PLASTICS CORP	MB1700+; + - Suffix optional, exceptions: The following cannot be used as optional suffixes: "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u), "S1" for F20-54, "R" for grade MB2211, "V" for grades S-2000+(f1), S- 2001+(f1), S-	Minimum V-0, thickness 0.75mm minimum, 60 degree C.	UL 94: 2013 UL 746C: 2018	UL , --

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		2003+(f1).			
02-03. Enclosure Material Top Side around Keyboard	LG CHEM LTD	GN-5001RFD, LUPOY GN- 5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-03a. Enclosure Material Top Side around Keyboard (Alternate)	LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD	GN-5001RFD, LUPOY GN- 5151RF(#) (#) – May be followed by optional suffiz letter from A- Z, except F.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-03b. Enclosure Material Top Side around Keyboard (Alternate)	LG CHEM POLAND SP Z OO	GN-5001RFD, LUPOY GN- 5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades AF302G, HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --

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02-03c. Enclosure Material Top Side around Keyboard (Alternate)	02-03c. MITSUBISHI ENGINEERING- PLASTICS CORP	02-03c. TMB1615++ - Suffix optional, exceptions: The following cannot be used as optional suffixes: "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u),"S1" for F20-54, "R" for grade MB2211, "V" for grades S-2000+(f1), S- 2001+(f1), S- 2003+(f1).	02-03c. Minimum V-0, thickness 1.0mm minimum, RTI 85 degree C	02-03c. UL 94: 2013 UL 746C: 2018	02-03c. UL , --
02-04a. Enclosure Material for Bottom Case (Alternate)	02-04a. LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD	02-04a. GN-5001RFD, LUPOY GN- 5151RF(#) (#) – May be followed by optional suffiz letter from A- Z, except F.	02-04a. V-0, min.1.0 mm thick, RTI 60 degree C	02-04a. UL 94: 2013 UL 746C: 2018	02-04a. UL , --
02-04b. Enclosure Material for Bottom Case (Alternate)	02-04b. LG CHEM POLAND SP Z OO	02-04b. GN-5001RFD, LUPOY GN- 5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades AF302G, HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X.	02-04b. V-0, min.1.0 mm thick, RTI 60 degree C	02-04b. UL 94: 2013 UL 746C: 2018	02-04b. UL , --
02-04c. Enclosure Material for Bottom Case (Alternate)	02-04c. MITSUBISHI ENGINEERING- PLASTICS CORP The following cannot be used as optional suffixes: "A" for 1501, 1502,	02-04c. TMB1615++ - Suffix optional, exceptions: degree C	02-04c. Minimum V-0, thickness 1.0mm minimum, RTI 85	02-04c. UL 94: 2013 UL 746C: 2018	02-04c. UL , --

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	1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u), "S1" for F20-54, "R" for grade MB2211, "V" for grades S-2000+(f1), S-2001+(f1), S-2003+(f1).				
02-04. Enclosure Material for Bottom Case (Alternate)	LG CHEM LTD	GN-5001RFD, LUPOY GN-5151RF(#) (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	V-0, min.1.0 mm thick, RTI 60 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-04d. Enclosure Material for Bottom Case (Alternate)	SABIC JAPAN L L C	DC0041PD(B5), ER010459(B5) (B5) – Represents color code 7M1D145 NOTE – Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.	Minimum V-0, thickness 0.8mm minimum, RTI 80 degree C	UL 94: 2013 UL 746C: 2018	UL , --

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02-04e. Enclosure Material for Bottom Case (Alternate)	SABIC INNOVATIVE PLASTICS US L L C	DC0041PQ(B 7) (B7) – May be replaced by the color code 7M1A9220 or 7M1D145 denoting a BK pigment. NOTE – Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.	Minimum V-0, thickness 0.8mm minimum, RTI 80 degree C	UL 94: 2013 UL 746C: 2018	UL , --
02-06. Metallized Coating	Interchangeable	Interchangeable	Applied for bottom case material, see item 02 above.	UL 746C: 2018	UL , --
02-07. Mesh for Bottom Openings	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC- 1860, KLX FRPC-1860B, KLX FRPC- 1860-83, KLX FRPC-1860- 83B, KLX FRPC-1860-1, KLX FRPC- 1860-NTC, KLX FRPC- 1860B-NTC, KLX FRPC- 1860B-3, KLX FRPC-1870B- K, KLX FRPC- 1860B-HY, KLX FRPC- 1860-HY, KLX FRPC-1860B- K, KLX FRPC- 1860-K, KLX FRPC-1860W	VTM-0 minimum, 0.125mm thickness minimum.	UL 94: 2013 UL 746C: 2018	UL , --
02-07a. Mesh for Bottom Openings (Alternate)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECO A, DFR117ECO B, DFR117ECO C	VTM-0 minimum, 0.05mm thickness minimum.	UL 94: 2013 UL 746C: 2018	UL , --

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02-08. Adhesive for Bottom Mesh	SDK	DST-5	100 degree C	--	-- , Tested in appliance
02-09. Mylar for Keyboard	SHENZHEN TEESUN TECHNOLOGY CO LTD	TS-FR1365, TS-FR1363, TS-FR1360, TS-FR1362, TS-FR160Y, TS-FR1370F, TS-FR1370, TS-FR1383, TS-FR1370-32, TS-FR1383-13	VTM-0 minimum, 0.05mm thickness minimum.	UL 94: 2013 UL 746C: 2018	UL , --
02-09a. Mylar for Keyboard (Alternate)	Interchangeable	Interchangeable	Min. VTM-0 or V-0.	UL 94: 2013 UL 746C: 2018	UL , --
03. LCD Panel	CHONGQING BOE OPTOELECTRONICS TECHNOLOGY CO LTD (BOE)	**140***_*** where " " could be any letter of "0" to "9" or "A" to "Z" or blank, denotes only non-safety related parts or name difference.	14.0 inch, TFT Type (LED backlight).	UL 60950-1:2014, UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL
03a. LCD Panel (Alternate)	HEFEI BOE OPTOELECTRONICS TECHNOLOGY CO LTD (BOE)	**140***_*** (where * could be any letter of "0" to "9" or "A" to "Z" or blank, denotes only non-safety related parts or name difference.)	14.0 inch, TFT Type (LED backlight).	UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL
03b. LCD Panel (Alternate)	INFOVISION ELECTRONICS (KUNSHAN) CO LTD (IVO)	X140NVyy, M140NWxx, P140NWxx, R140NWxx, M140NVxxyy, R140NVxx (where x can be 0-9, A-Z, blank or symbol "-"; y can be 0-9, A-Z, blank or symbol "-" for	14.0 inch, TFT Type (LED backlight).	UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL

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		marketing purpose and no impact any critical safety components and constructions)			
03c. LCD Panel (Alternate)	AU OPTRONICS CORP	B140HATZZZ Z , B140HAKZZZ Z , B140HABZZZ Z (Where Z may be any alphanumeric character or a dot or blank)	14.0 inch, TFT Type (LED backlight).	UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL
03d. LCD Panel (Alternate)	AU OPTRONICS CORP	B140HANZZZ Z B140HTNZZZ Z B140HTTZZZ Z B140HTVZZZ Z B140XTBZZZ Z B140XTKZZZ Z B140XTNZZZ Z B140XTTZZZ Z (Where Z may be any alphanumeric character or a dot or blank)	14.0 inch, TFT Type (LED backlight).	UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL
03e. LCD Panel (Alternate)	Innolux Corp	N140FGE-LXX, N140FGE-EXX, N140HGE-EXX, N140HCE-EXX, N140HCA-EXX, N140HCN-EXX, N140HCE-GXX, N140HCA-GXX, N140HGA-EXX, N140HCG-	14.0 inch, TFT Type (LED backlight).	UL 62368-1:2014, IEC 62368-1:2014	UL , CB by UL

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		GXX, N140HCN- GXX, N140HCR- GXX, P140ZKA- BXX, N140HCP- EXX, N140HCG- EXX, N140JCN- GXX, N140HCQ- GXX (X=0-9, A-Z or blank, X for marketing purpose and no impact safety related critical components and constructions)			
03f. LCD Panel (Alternate)	LG DISPLAY CO LTD	LP140WF9, LP140WFA	14.0 inch, TFT Type (LED backlight).	UL 62368- 1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014	UL , CB by TUV
03g. LCD Panel (Alternate)	Interchangeable	Interchangeable	14.0 inch, TFT Type (LED backlight).	UL 60950- 1:2014, UL 62368-1:2014, IEC 60950- 1:2005 + A1:2009 + A2:2013, IEC 62368-1:2014	UL , CB by NCB
04. DC Fan	DELTA ELECTRONICS INC	ND75C94- 21G08, ND75C94 XXXXXXXXXX X X, X stands for A-Z, 0-9, - or blank	5Vdc, 0.5A, 3.8CFM minimum.	UL 507:2020, EN 62368- 1:2014/A11:20 17	UL , TUV RH
04a. DC Fan (Alternate)	Asia Vital Components Co.,Ltd.	BAPA0906R5 H Y007, BAPA0906Z5 H V, "Z" can be A, B, C, G, R, S, or T; "V" can be ABCD where A, B, C, D may be A-Z, 0-9, "-" or blank	5Vdc, 0.5A, 4.93CFM minimum.	UL 507:2020, EN 62368- 1:2014/A11:20 17	UL , TUV SUD

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04c. DC Fan (Alternate)	Interchangeable	Interchangeable	5Vdc, Max. 0.5A, 3.80CFM minimum.	UL 507:2020, EN 62368- 1:2014/A11:20 17	UL , UV, VDE or CB by National Certification Body
05. Battery Pack	SIMPLO TECHNOLOGY CO LTD (Lenovo)	L21M3PG1	11.25Vdc, 3735mAh / 42Wh, 3635mAh / 40.9Wh	UL 62368- 1:2019, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1:2018, EN IEC 62368- 1:2020+A11:20 20	UL , CB by UL
05a. Battery Pack (Alternate)	CELPERT ENERGY CORP (Lenovo)	L21C3PG1	11.25Vdc, Typical 3735mAh / 42Wh, Rated 3635mAh / 40.9Wh	UL 62368- 1:2019, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1:2018, EN IEC 62368- 1:2020+A11:20 20	UL , CB by UL
05b. Battery Pack (Alternate)	Zhejiang Sunwoda Electronic Co., Ltd. (Lenovo)	L21D3PG1	DC 11.25V, Rated:3635mAh, 40.9Wh/ Typical: 3735mAh, 42Wh	UL 62368- 1:2014, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1: 2014, EN 62368- 1:2014 / A11: 2017	UL , CB by TUV- Rh
05c. Battery Pack (Alternate)	LG ENERGY SOLUTION, LTD. (Lenovo)	L21L3PG1	11.4Vdc, Typ.: 3685mAh/42Wh, Rated: 3590mAh/40.9Wh	UL 62368- 1:2019, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1:2018, EN IEC 62368- 1:2020+A11:20 20	UL , CB by UL
05d. Battery Pack (Alternate)	SIMPLO TECHNOLOGY CO LTD (Lenovo)	L21M3PG2	11.52Vdc, 4948mAh or 57Wh, 4862mAh or 56Wh	UL 62368- 1:2019, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1:2018, EN IEC 62368- 1:2020+A11:20 20	UL , CB by UL
05e. Battery Pack (Alternate)	CELPERT ENERGY CORP (Lenovo)	L21C3PG2	11.52Vdc, 4948mAh / 57Wh, 4862mAh / 56Wh	UL 62368- 1:2019, UL 2054:2011, IEC 62133- 2:2017, IEC 62368-1:2018, EN IEC 62368- 1:2020+A11:2020	UL , CB by UL

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06. Mother Board	--	--	See below	--	-- , --
06-01. Thermal Module	--	--	Copper or Aluminum or Alloy of Copper or Steel or Alloy of Aluminum or Alloy of metal. See Enclosure ID 4-04 for detailed dimension.	--	-- , --
06-02. Protector IC for USB Type C Port	TEXAS INSTRUMENTS INCORPORATED	TPS66021, TPS66020- may be preceded by 'P', may be followed by additional characters that do not affect the safety features of the device	Input Voltage: 4.9 - 5.5 Vdc Output Continuous Rating: 1.5 - 3.0 A Output Current Limit: 1.87 - 3.7 A	UL 2367:2021, IEC 62368-1: 2014	UL , CB by UL (US-34369-UL)
06-02a. Protector IC for USB Type C Port (Alternate)	TEXAS INSTRUMENTS INCORPORATED	SN1810003, SN1810004, SN1905001, SN1905002, SN1905003, SN1905004, SN1905005, SN1905006, SN1905007, SN1905008, SN1908005, SN2001021, SN2001022, SN2001023, SN2001024, SN2001025, SN2001026, SN2001027, SN2001028, SN2001029, SN2006001, SN2006002, SN2006003, TPS65993, and TPS65994, may be followed by additional characters that do not affect the safety features of the device	Input Voltage: 4.9 to 5.5 Vdc; Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9 to 3.0 A; PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315 A; *Only 1 path within a pair are active at one time Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78 A; PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66 A; Maximum Ambient: 65 degree C; SN2001025, SN2006001, SN2006002, SN2006003 and TPS65994 with alternate Insulated Housing: Maximum Ambient: 85	UL 2367:2021, IEC 62368-1: 2014	UL , CB by UL US-38687-UL)

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			degree C		
06-02b. Protector IC for USB Type C Port (Alternate)	TEXAS INSTRUMENTS INCORPORATED	SN1810003, SN1810004, SN1905001, SN1905002, SN1905003, SN1905004, SN1905005, SN1905006, SN1905007, SN1905008, SN1908005, SN2001021, SN2001022, SN2001023, SN2001024, SN2001025, SN2001026, SN2001027, SN2001028, SN2001029, TPS65993, and TPS65994, may be followed by additional characters that do not affect the safety features of the device	Input Voltage: 4.9 - 5.5 Vdc Output Continuous Rating: PA_VBUS, PB_VBUS: 0.9 to 3.0A PA_CC1, PA_CC2, PB_CC1, PB_CC2*: 0.315A Output Current Limit: PA_VBUS, PB_VBUS: 1.36A to 3.78A PA_CC1, PA_CC2, PB_CC1, PB_CC2: 0.47 to 0.66A	UL 2367:2021, IEC 62368-1: 2014	UL , CB by UL US-38687-UL)
06-03. Protector IC for USB 3.0 and HDMI Ports	Global Mixed-mode Technology Inc.	G517FX1X2X 3 X4,X1=1, 2, 3, or 4,X2=T1, TB, TO,TP, U5, P8 or TM,X3=1,2 or 3,X4=U or D	Input Voltage: 2.7 to 5.5 Vdc;Output Continuous Rating: 2.1 A;Output Current Limit: 2.2 to 3.0 A;Maximum Ambient: 70 degree C	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013	UL , CB by TUV (JPTUV-077390)
06-03a. Protector IC for USB 3.0 and HDMI Ports (Alternate)	SILERGY CORP	SY6288- followed by E1, E2, E3, E4, E5 or E6, followed by AAC followed by F1, F2, F3 or F4, followed by ABC	Input voltage: 2.5-5.5Vdc, Continuous current: 3.0A for Models SY6288; followed by E1; E2; E3 or E4; followed by AAC; 2.5 A for Models SY6288; followed by E5 or E6; followed by AAC; 0.3 to 3.0 A for Models SY6288;	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (DK-86927-A1- UL, DK-67571- M1-UL)

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			followed by F1; F2; F3; or F4; followed by ABC		
06-03b. Protector IC for USB 3.0 and HDMI Ports (Alternate)	Silergy Technology (Taiwan) Inc	SYV687ZDEC , SY6288-follow by G or H, follow by AB, follow by C, SY6287-follow by B, B1, C, C1, E, F, Y or Z, follow by AB, DE or CA, follow by C; SYVL27, SY20807- follow by B, B1, C or C1, follow by AB, DE or CA, follow by C	Models SY6287, follow by B, B1, C, C1, E or F, follow by AB, DE or CA, follow by C; SYVL27, follow by B, B1, C or C1, follow by AB, DE or CA, follow by C; SY20807, follow by B, B1, C or C1, follow by AB, DE or CA, follow by C; SY6288, follow by G or H, follow by AB, follow by C; SYV687ZDEC: Input Voltage: 2.5 to 5.5 Vdc Output Continuous Rating: Max. 2.0 A Current Limit Rating: 0.575A to 4.43 A. Models SY6287, follow by Y or Z, follow by AB, DE or CA, follow by C; Input Voltage: 2.5 to 5.5 Vdc Output Continuous Rating: Max. 2.2 A Current Limit Rating: 0.575A to 4.43 A.	UL 2367:2021, IEC 62368-1: 2014	UL , CB by UL (DK- 73538-A2- UL)
06-03c. Protector IC for USB 3.0 and HDMI Ports (Alternate)	ANPEC ELECTRONICS CORP	APL3553- followed by A, B, C, D, E, F, G, H, I or J followed by B, C or X, followed by I, followed by -, followed by TR, followed by G, APL3555- followed by A, B, C or D, followed by B, followed by I, followed by -, followed by	Input Voltage: 2.7 to 5.5 Vdc Output Continuous Rating: 2.0 A for Models APL3555 followed by A or B, followed by B, followed by I, followed by -, followed by TR, followed by G; Models APL3553 followed by A, B, E, F, I or J, followed by B, C or X, followed by	UL 2367:2011, IEC 60950- 1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (DK- 87208-M2- UL, DK- 59231- A2-UL)

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		TR, followed by G	I, followed by -, followed by TR, followed by G. 1.0 A for Models APL3555 followed by C or D, followed by B, followed by I, followed by -, followed by TR, followed by G; Models APL3553 followed by C, D, G or H, followed by B, C or X, followed by I, followed by -, followed by TR, followed by G;		
06-03d. Protector IC for USB 3.0 and HDMI Ports (Alternate)	Richtek Technology Corp.	RT9742..G., The first dot "." can be A to Z represent output current/enable function. The second dot "." can be N or blank represent discharge function. The third dot "." can be J5F/J5/ V represent package type.	2.7V to 6V, 3A/2A/1.5A/1A/0.5A, 70mΩ/55mΩ (typ.) N-MOSFET Switch; SELV Class III	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by Nemko (NO109777, NO87949)
06-03e. Protector IC for USB 3.0 and HDMI Ports (Alternate)	DIODES INCORPORATED	PI5USB25ww x yyyEz Series(where ww is 44 or 46; x is blank, A or H; yyy is ZH or ZHD for the packaging type; E is Pb-free; and z is blank or X; Cat. Nos. PI5USB2544Z HE, PI5USB2544Z HEX, PI5USB2544A ZHE, PI5USB2544A ZHEX, PI5USB2544Z HDE, PI5USB2544Z	Input Voltage: 4.5 to 5.5 Vdc; Output Continuous Rating: 0.03 to 2.5 A; Current Limit Rating: 0.1 to 3.18 A; Maximum Ambient: 85 degree C	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (US-38136-UL, US-24707-M2- UL)

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		HDEX, PI5USB2544A ZHDE, PI5USB2544A ZHDEX, PI5USB2546Z HE, PI5USB2546Z HEX, PI5USB2546A ZHE, PI5USB2546H ZHE, PI5USB2546A ZHEX, PI5USB2546Z HDE, PI5USB2546Z HDEX, PI5USB2546A ZHDE, PI5USB2546A ZHDEX, PI5USB2546H ZHEX, PI5USB2546H ZHDE, PI5USB2546H ZHDEX.			
06-03f. Protector IC for USB 3.0 and HDMI Ports (Alternate)	TEXAS INSTRUMENTS INCORPORATED	SN1408009R T E, SN1702001, TPS2543, TPS2544, TPS2547, TPS2546, TPS2545- Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device	Input Voltage: 4.5 to 5.5Vdc; Output Continuous Rating: 2.5A; Output Current Limit: 3.1A	UL 2367:2011, IEC 60950- 1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (US- 35117-UL, US-29689- M1- UL)
06-03g. Protector IC for USB 3.0 and HDMI Ports (Alternate)	TEXAS INSTRUMENTS INCORPORATED	TPD3S014, TPD3S044, TPS2000, TPS2001, TPS2065-2, TPS2061,	Input Voltage - 4.5 Vdc to 5.5 Vdc Output Continuous Current Rating: TPS2041 - 0.5 A	UL 2367:2011, IEC 60950- 1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (US- 34988-UL, US-30345- UL)

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		TPS2041, TPS2051, TPS2069, TPS2068, TPS2065, TPS2069-2- May be followed by other characters that do not impact the safety feature of the device.	TPS2051 - 0.5 A TPS2061 - 1.0 A TPS2065 - 1.0 A TPS2065-2 - 1.0 A TPS2068 - 1.5 A TPS2069 - 1.5 A TPS2069-2 - 1.5 A TPS2000 - 2.0 A TPS2001 - 2.0 A TPD3S014 - 0.5 A TPD3S044 - 1.5 A Output Current Limit: TPS2041 - 1.05 A TPS2051 - 1.05 A TPS2061 - 1.9 A TPS2065 - 1.9 A TPS2065-2 - 1.96 A TPS2068 - 2.7 A TPS2069 - 2.7 A TPS2069-2 - 2.86 A TPS2000 - 3.6 A TPS2001 - 3.6 A TPD3S014 - 1.05 A TPD3S044 - 2.7 A Ambient = -40 to +85°C		
06-03h. Protector IC for USB 3.0 and HDMI Ports (Alternate)	ROHM CO LTD	BD82028FVJ, BD82029FVJ, BD82030FVJ, BD82031FVJ, BD82032FVJ, BD82033FVJ, BD82034FVJ, and BD82035FVJ designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device. Suffix FVJ denotes device Package Type TSSOP-B8J.	Input Voltage: -4.5 Vdc to 5.5 Vdc; Model BD82028FVJ: 0.5 A Model BD82029FVJ: 0.5 A Model BD82030FVJ: 1.0 A Model BD82031FVJ: 1.0 A Model BD82032FVJ: 1.5 A Model BD82033FVJ: 1.5 A Model BD82034FVJ: 2.0 A Model BD82035FVJ: 2.0 A Model BD82028FVJ: 1.2 A Model BD82029FVJ: 1.2 A Model	UL 2367:2011, IEC 60950- 1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (JP- 21381-UL, JP-12176- UL)

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			BD82030FVJ: 1.8 A Model BD82031FVJ: 1.8 A Model BD82032FVJ: 2.3 A Model BD82033FVJ: 2.3 A Model BD82034FVJ: 2.8 A Model BD82035FVJ: 2.8 A Ambient: -40 °C to 85 °C		
06-03l. Protector IC for USB 3.0 and HDMI Ports (Alternate)	TEXAS INSTRUMENTS INCORPORATED	TPS2552-1, TPS2553, TPS2553-1, TPS2552	Input Voltage: 2.5 to 6.5 Vdc Output Continuous Rating: 1.5A Output Current Limit: 1.7A Maximum Operational Ambient: 60°C	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (US-34989-UL, US-24603-A1- UL)
06-03j. Protector IC for USB 3.0 and HDMI Ports (Alternate)	Global Mixed-mode Technology Inc.	G517ALX1X2 X 3X4,X1=1 or 2,X2=TP, TB, RB or U5,X3=1, 2 or 3,X4=U or D	Input Voltage: 2.7 to 5.5 Vdc;Output Continuous Rating: 0.1 to 2.15 A;Output Current Limit: 0.2 to 2.75 A;Maximum Ambient: 70 degree C	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013	UL , CB by TUV (JPTUV-077390)

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06-03k. Protector IC for USB 3.0 and HDMI Ports (Alternate)	Guangdong Cellwise Microelectronics Co., Ltd. (CellWise)	CW3042AAAD, CW3042AAAE, HP3048BAAQ, CW3048AAAQ, CW3048BAAQ, CW3046AAAQ	Input Voltage: 4.5 to 5.5 Vdc, Output Continuous Rating: Maximum 2.8 A, Current Limit Rating: Maximum 3.17 A	UL 2367:2011, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL (DK-108822-UL, DK-63696-M1- UL)
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06-03I. Protector IC for USB 3.0 and HDMI Ports (Alternate	DIODES INC	AP2553, AP2552- maybefollowed by A, maybe followedby additional letters and/or numbers., AP2553A, AP2552A-may be followed byadditional letters, numbers, and/or a '-'	Input Voltage: 2.7 to 5.5Vdc, Output Continuous Rating: Maximum 2.1 A, Current Limit Rating: Maximum 3.02 A	UL 2367:2021, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , UL , CB by UL (US-24721-UL, US-34481-UL)
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06-03m. Protector IC for USB 3.0 and HDMI Ports (Alternate)	ON SEMICONDUCTO R	NCP380- followed by H or L; followed by MU or SN; followed by 05, 10, 15, 20, 21 or AJ. Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.	Input Voltage: - 2.5 Vdc to 5.5 Vdc Output Continuous Rating (unit: A): NCP380xSN05 AAT 1G 0.5 NCP380xSN10 AAT 1G 1.0 NCP380xSNAJ AAT 1G 0.5 - 1.0 NCP380xMU05 AAT BG 0.5 NCP380xMU10 AAT BG 1.0 NCP380xMU15 AAT BG 1.5 NCP380xMU20 AAT BG 2.0 NCP380xMU21 AAT BG 2.1 NCP380xMUAJ AAT BG 0.5 - 2.1 Output Current Limit: NCP380xSN05 AAT 1G 0.7 NCP380xSN10 AAT 1G 1.4 NCP380xSNAJ AAT 1G 0.7 - 1.8 NCP380xMU05 AAT BG 0.7 NCP380xMU10 AAT BG 1.4 NCP380xMU15 AAT BG 2.0 NCP380xMU20 AAT BG 2.1 NCP380xMU21 AAT BG 2.5 NCP380xMUAJ AAT BG 0.7 - 2.5 Where x = L or H	UL 2367:2021, IEC 62368-1: 2014	UL , CB by UL (DK- 103788-UL)
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08. Solid State Drive(Optional)	INTEL CORP	MEM*,SSD* where * can be optional letters or numbers used to identify features such as memory type, size (thickness, width) and identify details not critical to the compliance of the drive.	3.3 Vdc, 5 Vdc, and/or 12 Vdc	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by UL
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08a. Solid State Drive (Alternate) (Optional)	Interchangeable	Interchangeabl e	3.3 Vdc, 5 Vdc, and/or 12 Vdc	UL 60950-1:2014, UL 62368-1:2014, IEC 60950-1:2005 + A1:2009 + A2:2013, IEC 62368-1: 2014	UL , CB by NCB
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09. Speaker (Two provided)	Interchangeable	Interchangeabl e	Each rated 4 ohm, 2.5 Watts maximum.	Test with equipment	-- , --
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10. LED Chip (in IR Camera) (Optional)	Liteon OPTP Technology (CZ) Ltd.	LTE-R28206S- NE8, LTE- R28206S-NE8-XX, LTE- R28206S-YE8, LTE-R28206S-YE8-XX ("XX" means different customer numbers)	0.5A, 3Vdc (exempt group)	IEC 62471:2006	-- , IEC 62471:2006 (BE-34640)
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10a. LED Chip (in IR Camera) (Optional) (Alternate)	Liteon OPTP Technology (CZ) Ltd.	LTE-R28206S- ME8-XX; LTE- R28206S-ME8; LTE-R28206S-KE8-XX; LTE-R28206S-KE8; LTE-R28206S ("XX" means different customers)	0.5A, 3Vdc (exempt group)	IEC 62471:2006	-- , IEC 62471:2006 (BE-36784)
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12. RTC battery	VIC-DAWN ENTERPRISE COLTD	CR2016 (CR2016 Cells may be provided with alphanumeric suffix (j) or (k), (j) may come with an optional single or multiple alphanumeric suffix denoting various insulating tube, ring, or tape. may come with an optional single or multiple alphanumeric suffix denoting various pin, tab, cap or wire termination types)	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
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12a. RTC battery (Alternate)	JHIH HONG TECHNOLOGY CO LTD	CR2016	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
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12b. RTC battery (Alternate)	DOUBLE BEST CO LTD	CR2016 (j)(k), (j) - These cells may have various insulating tube, ring, or tape, (k) - These cells and batteries may come with an optional single or multiple alphanumeric suffix denoting various pin, tab, cap or wire termination types	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
12c. RTC battery (Alternate)	MITSUBISHI ELECTRIC HOME APPLIANCE CO LTD	CR2016	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL

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12d. RTC battery (Alternate)	mitsubishi ELECTRIC HOME APPLIANCE COLTD	CR2016N	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
12e. RTC battery (Alternate)	mitsubishi ELECTRIC CORP	CR2016+, + - The cells may have various insulating tube, ring, or tape.	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL

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12f. RTC battery (Alternate)	Panasonic Corporation, Panasonic Corporation Of North America	CR2016*, CR- 2016*, * - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging, etc.	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
12g. RTC battery (Alternate)	TOHOKU MURATA MANUFACTURING CO., LTD	CR2016A, CR2016*, * - These celles may have various pin, tab, insulating tube, ring and tape.	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
12h. RTC battery (Alternate)	SONY ELECTRONICS INC	CR2016	3Vdc; max. abnormal charging current 10 mA	UL 1642:2020	UL , UL
12i. RTC battery (Alternate)	Interchangeable	CR2016	3Vdc; max. abnormal charging current 10 mA.	UL 1642:2020	UL , UL
1. Label	Interchangeable	Interchangeable	Min 55 degree C, suitable for the surface applied.	UL969	UL
Cord set	Interchangeable	Interchangeable	----	NBR 14136, NBR NM 60884-1	INMETRO

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2. Metal Chassis	-	-	Consists of 4 pieces, secured together by physical fit, wedged, overall 361.7 mm X 88.0 mm X 338.0 mm, min 0.6mm thick for top and bottom, min 0.8mm thick for sides,. Overall 179mm×178.7 mm×34.5mm, Min.0.6 mm thickness	-	-
Metal Chassis	Interchangeable	Interchangeable	min. 0.6 mm thickness	-	Test with equipment
Metal enclosure	Interchangeable	Interchangeable	Overall 257mm x 89mm x 340mm, min 0.6 mm trickness	IEC/EN 60950-1	Test with equipment
Plastic Front Panel and battery box plastic enclosure	LG CHEM LTD	HI121	HB, min. 1.5 mm thickness. Min. 95°C	UL94, IEC/EN 60950-1	UL & tested in Appliance
3. Plastic Front Panel	Interchangeable	Interchangeable	HB or better, min. 1.5 mm thickness. Min. 95°C	UL94, UL746C	UL
Plastic Front Panel	STYROLUTION GROUP GMBH	GP-22	HB, min. 0.8 mm thickness	Applicable parts of IEC/EN 60950-1	UL E108538 & tested in appliance
Plastic Front Panel	CHI MEI CORPORATION	PA-757(+)	HB, 80°C, min. 1.5mm thickness	UL746C, UL94	UL E56070
Plastic Front Panel (Alternative)	COVESTRO DEUTSCHLANDAG [PC RESINS]	2865 + (z), 2867 + (z)	V-2, 115°C, min. 1.5mm thickness.	UL 746C, UL 94	UL E41613a
Plastic Front Panel (Alternative)	SABIC INNOVATIVE PLASTICS B V	C6600(GG)(X) (VS)	V-2, 60°C, min. 1.0mm thickness.	UL 746C, UL 94	UL E45329

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Plastic Front Panel (Alternative)	DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABSPCR35/ 65/85	HB, 60°C, min. 1.6mm thickness.	UL 746C, UL 94	UL E345434
Plastic Front Panel (Alternative)	Interchangeable	Interchangeable	HB or better, min. 1.5 mm thickness.	UL 746C, UL 94	UL certified
Plastic Front Panel (Dust Cover) (Optional)	Interchangeable	Interchangeable	HB or better, min. 0.80 mm thickness.	UL 746C, UL 94	UL certified
Plastic Stand (Optional)	Interchangeable	Interchangeable	HB or better, min. 0.80 mm thickness.	UL 746C, UL 94	UL certified
Plastic Front Panel and battery box plastic Enclosure (Alternative)	Interchangeable	Interchangeable	HB or better, min. 1.5 mm thickness. Min. 95°C	UL94:2013	UL approved
4. PWB	Interchangeable	Interchangeable	Min V-1, min 105 degree C	UL796	UL
5. Built-in Power Supply	FSP Group Inc.	FSP180-20TGBAA	I/P: 100-240Vac, 3.0A, 50/60Hz; O/P: +12V/15.0A, -12V/0.2 A, 180W	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV-062658
5a. Built-in Power Supply (alternate)	Shenzhen Huntkey Electric Co., Ltd.	HK280-72PP, HK280-72PP xy (x=A-Z or blank, y=0-9 or blank)	I/P: 100-240Vac, 3.0A, 50/60Hz; O/P: +12V/15A, -12V/0.2 A, max. 180W; +12V: max. 180W; -12V: max. 2.4W.	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. SG-OF-12495
5b. Built-in Power Supply (alternate)	FSP Group Inc.	FSP210-20TGBAA FSP180-20TGBAB FSP210-20TGBAB	I/P: 100-240Vac, 3.0A, 50/60Hz; O/P: +12V/17.5A, -12V/0.2 A, 210W Altitude: up to 5000m	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV - 062658 No.: JPTUV 067200 M1

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5c. Built-in Power Supply (alternate)	Acbel Polytech Inc.	PCE025	I/P: 100-240Vac, 3.0A, 50/60Hz; O/P: +12V/17.5A, -12V/0.2 A; Total power 210W max.	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV-062130
5d. Built-in Power Supply (alternate)	Shenzhen Huntkey Electric Co., Ltd.	HK310-71PP, HK310-71PP xy (x=A-Z or blank, y=0-9 or blank)	I/P: 100-240Vac, 3.0A, 50/60Hz; O/P: +12V/17.5A, -12V/0.2 A; Max 210W; +12V: max. 210W; -12V: Max. 2.4W	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. SG-OF-12494
5e. Built-in Power Supply (alternate)	Lite-On Technology Corporation	PA-2221-3XX (X can be any character or blank)	I/P: 100-240Vac, 3A, 50/60Hz; O/P: +12V/17.5A, -12V/0.2 A, continuous total DC output power 210W max.	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV-062750
Built-in Power Supply	Lite-On Technology Corporation	PA-1650-72	Input: AC 100-240V;50-60Hz;1.8A; Class I Output: DC 20V;3.25A	IEC/EN 60950-1	CB Cert. No.: JPTUV-044694 GS Cert. No.: S 50233068 0001
Built-in Power Supply	Lite-On Technology Corporation	PA-1900-72	Input: AC 100-240V;50-60Hz;1.5A; Class I Output: DC 20V;4.5A	IEC/EN 60950-1	TUV CB Cert. No. JPTUV-044681 GS Cert. No.: S 50232721 0001
Built-in Power Supply	DELTA ELECTRONICS INC	ADP-90XD B ADP-65FD B	Input: AC 100-240V;50-60Hz;1.5A; Class I Output: DC 20V;4.5A Input: AC 100-240V, 1.5A, 50-60Hz; Output: DC 20V, 3.25A; Altitude: up to 5000m	IEC/EN 60950-1	UL CB Cert. No. DK-27369-A1- UL GS Cert. DK-39157- UL, No.: S1 50234916 UL E131881

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6. DC Fan (For CPU)	DELTA ELECTRONICS INC	AFB0812SH- 9N07	12Vdc, 0.51A, 64.5CFM	UL507, IEC60950-1	VDE
DC Fan (For CPU)	SUNONWEALT H ELECTRIC MACHINE INDUSTRY CO LTD	EF90151BXC01C- S9A	DC 12V, 0.771A, 19.0CFM	UL 507, IEC/EM 60950-1	UL E77551 TUV R 50275749
6a. DC Fan (For CPU) (alternate)	Foxconn Technology Co., Ltd.	PVA080G12Q -P01-AD	12Vdc, 0.65A, 66.09CFM	UL507, IEC60950-1	TUV
6b. DC Fan (For CPU) (alternate)	ASIA VITAL COMPONENTS CO LTD	DS08025T12 UP199DS08025R12 UP227 DS08025R12UP241 DS08025R12UP242	12Vdc, 0.7A, 64.44CFM	UL507, IEC60950-1	TUV UL E158191 & tested in appliance
6c. DC Fan (For CPU) (alternate)	SHENZHEN DONGWEIFENG ELECTRONIC TECHNOLOGY CO LTD	EF(X)-08E12(Y)(Z), where (X) may be S, H, B, C or F, (Y) may be W, (Z) may be blank, may be – WWWW, W can be 0 to 9 or A to Z EFH 08E12WGP01	12Vdc, 0.7A, 64.9CFM	UL507, IEC60950-1	TUV
6d. DC Fan (For CPU) (alternate)	Interchangeable	Interchangeable	12Vdc, 0.7A max., 64.44CFM min. 12Vdc, max 1.0A, min. 18CFM 12Vdc, 0.7A, 64.4CFM	UL507, IEC60950-1 UL 507:1999& IEC 60950-1: 2005+A1:2009 EN 60950 1:2006+A11:200 9+ A1:2010+A12:20 11	TUV UL, S & other EU certification Marks
DC Fan (For CPU) (Alternative)	ASIA VITAL COMPONENTS CO LTD	BAZA0814B2U P001	12Vdc, 1.0A, 18CFM	UL 507 IEC/EN 60950-1	UL E231557 & tested in appliance
7. DC Fan (For System)	Foxconn Technology Co., Ltd.	PVA080G12Q -(X)YY-YY, Where (X) may be F, R or X, X may be from 0 to 9, from A to Z or blank; Y may be from 0 to 9, from A to Z or blank	12Vdc, 0.65A, 65CFM	UL507, IEC60950-1	TUV

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7a. DC Fan (For System) (alternate)	DELTA ELECTRONICS INC	AFB0812SHAA38	12Vdc, 0.6A, 64CFM	UL507, IEC60950-1	TUV
7b. DC Fan (For System) (alternate)	Interchangeable	Interchangeable	12Vdc, 0.65A max., 64CFMmin. 12V dc, 0.60A, 64.5CFM	UL507, IEC60950-1	TUV UL, EU Certification Approved
8. DC Fan (For HDD) (Optional)	Asia Vital Components Co., Ltd.	DS04010R12 (W)(V), where (Z) may be A, B, C, G, S, T, R or P, (W) may be S, U, H, M or L, (V) may be XXXX, where X maybe A through Z, 0 through 9, "-" or blank.	12Vdc, 0.14A, 7.59 CFM	UL507, IEC60950-1	TUV UL E158191 & tested in appliance
8a. DC Fan (For HDD) (Optional) (alternate)	Interchangeable	Interchangeable	12Vdc, 0.14A max., 7.59 CFM min.	UL507, IEC60950-1	TUV UL, EU Certification Approved
DC Fan (For CPU)	DELTA ELECTRONICS INC	BFB0712HBA9 H	12Vdc, 1.0A, 18.5CFM	UL 507 IEC/EN 60950-1	UL E132003 & tested in appliance
DC Fan (For CPU)	AVC	Z8UA0D4001-1 (DS08025R12U P227)	DC 12V, 0.7A, 64.4CFM	UL507	UL E158191
DC Fan (For System Rear) (optional)	AVC	DS08025R12UP241 -1	DC 12V, 0.45A/0.7A max., 64.4CFM min.	UL507	UL E158191
DC Fan (For System Front) (optional)	AVC	DS08025R12UP242 -1	DC 12V, 0.7A max., 64.4CFM min.	UL507	UL E158191
9. Lithium Battery Protection Circuit (for Motherboard, P/N: IQ1X0MS)	-	-	Reverse current protection accomplished by Diode (D2) and 1 kohm resistor (R195).	-	-
10. Optical Device Drive (Optional)	Samsung Electronics Co., Ltd.	TS-H353C	Class 1(I), 5V/12 V dc, 1.5 A or 1.6 A/1.5A or 1.6 A	UL60950-1	UL

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Optical Device Drive (Optional)	Philips & Lite- On Digital Solutions Corp	DS-8A8SH	Class 1 laser, 5/12 V dc, 3.0A/1.5 A.	IEC/EN 60825-1 & IEC 60950-1	TUV CB Cert. No. JPTUV- 052989
10a. Optical Device Drive (Optional) (alternate)	Interchangeable	Interchangeable	Class 1(I), 5/12 V dc, 3.0/3.0 A max.	UL60950-1; IEC/EN 60950-1	TUV, VDE, Nemko S, CB, UL& other EU certification marks
Optical Device Drive (Optional)	Hitachi-LG Data Storage inc.,	CH20N	BD Combo, Class 1 laser, 5/12 V dc, 1.5/1.5 A.	IEC/EN 60825-1	Intertek S Certificate: 911330
Optical Device Drive (Optional)	Sony Optiarc Inc.	DDU1681Sxxx (x can be any alphanumeric or blank or hyphen)	Class 1 laser, DC 5/12 V, 1.5/1.5 A	IEC/EN 608251:2014& IEC 60950-1	CB Certificate: JPTUV 026113
Optical Device Drive (Optional) (Alternative)	Interchangeable	Interchangeable	Class 1 laser, DC 5/12 V, 3.0/3.0 A max. Class III	UL60950-1, IEC/EN 60950-1, IEC/EN 60825-1	UL, S & other EU certification marks
11. Hard Disk (Optional)	Seagate Technology Inc.	ST1000DM003	12 V/5 V dc, 1.5A max	UL60950-1	UL
Hard Disk Drive (Optional)	Western Digital Technologie Inc	WD5000AAKX	5 V/12 V dc, 1.0A/0.95 A max.	Applicable parts of IEC/EN 60950-1	UL E101559 & tested in appliance
Hard Disk (Optional)	Seagate Technology, Incorporated	ST3 series	5 V/12 V dc, 0.72 A/0.52 A max. DC 5 V/12 V, 1.5 A/ 1.5 A max.	UL 60950- 1& IEC/EN 60950-1	UL E106814 & tested in appliance
Hard Disk (Optional)	Seagate Technology, Incorporated	ST500DM002	12 V/5 V dc, 1.5A max	UL60950-1	--
Hard Disk (Optional)	Seagate Technology, Incorporated	ST3500413AS	12 V/5 V dc, 1.5A max	UL60950-1	--
11a. Hard Disk(Optional) (alternate)	Interchangeable	Interchangeable	5 V/12 V dc, 3.0 A/3.0 A max.	UL60950-1; IEC/EN 60950-1 IEC 60950-1: 2005+A1:2009 EN 60950-1: 2006+A11:2009+A1	TUV, VDE, Nemko S & other EU certification marks

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				:2010+A12:2011	
12. Lithium Battery for RTC	Sony Energy Devices Corp. VIC-DAWN ENTERPRISE CO LTD	CR2032	3 VDC, maximum abnormal charging current 10 mA (Lithium Type) 3.0V/220mAh max continue discharge current: 4mA	UL1642	UL MH20550 & tested in appliance
Lithium Battery for RTC (Alternative)	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	CR2032	3V/225mAh max continue discharge current: 0.2mA	Applicable parts of IEC/EN 60950-1	UL MH12210 & tested in appliance
Lithium Battery for RTC (Alternative)	VIC-DAWN ENTERPRISE CO LTD	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642 IEC/EN 60950- 1	UL MH20550 & tested with equipment
Lithium Battery for RTC (Alternative)	Shun Wo New Power Battery Technology Ltd.	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642	--
Lithium Battery for RTC (Alternative)	Hitachi Maxell Ltd	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642	--
Lithium Battery for RTC (Alternative)	Toshiba Home Appliances Corp	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642	--
Lithium Battery for RTC (Alternative)	Wuhan Lixing (Torch) Power Source Co Ltd	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642	--
Lithium Battery for RTC (Alternative)	Jhih Hong Technology Co Ltd	CR2032	DC 3 V, Max. abnormal charging current 10 mA	UL 1642	--
12a. Lithium Battery for RTC (alternate)	Interchangeable	Interchangeable	3 V dc, maximum abnormal charging current 10 mA (Lithium Type)	UL1642	UL

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13. Poly Switch	BOURNS	MF-USMF110	PTC, rated 6Vdc, holding current: 1.1 A,	UL1434	UL
(F3,F4,F6,F7,F8, F12)	ELECTRONICS	MF-NSMF200	trip current: 2.2A 6Vdc, holding current:		UL E174545 &
	(TAIWAN) LTD	MF-MSMF260	2.6A, trip current: 5.2A		tested in
		MF-PSML260	PTC, rated 6V dc, holding current: 2.6 A,		appliance
			trip current: 5.0 A		
13a. Poly Switch (F3,F4,F6,F7,F8, F12) (alternate)	TYCO ELECTRONICS CORP	microSMD110 F-2	PTC, rated 6V dc, holding current: 1.1 A, trip current: 2.2 A	UL1434	UL E74889 & tested in appliance
Poly Switch (F1,SF2,SF8)	TYCO ELECTRONICS CORP	nanoSMDC110 F	PTC, 6V dc, 1.1A, tripping current:2.2A	UL 1434& IEC/EN 60950-1	UL E74889 & tested in appliance
13b. Poly Switch (F3,F4,F6,F7,F8, F12) (alternate)	POLYTRONICS TECHNOLOGY CORP	SMD1210P11 0TFT SMD1812P260T SPR-P260T SMD1206P110TFT	PTC, rated 8V dc, holding current: 1.1 A, trip current: 2.2 A 8Vdc, holding current: 2.6A, trip current: 5A PTC, rated 6Vdc, holding current: 2.6A, trip current: 5.2A DC 6V, holding current: 1.1A, trip current: 2.2A	UL1434	UL E201431 & tested in appliance
14. Poly Switch (F1, F2, F5, SF2,SF8, SF3,SF5)	BOURNS ELECTRONICS (TAIWAN) LTD	MF-NSML300 MF-NSMF110 MF-NSMF110-2	PTC, 6 V dc, holding current: 3A, tripping current: 6A PTC, 6V dc,	UL1434& IEC/EN 60950-1	UL E174545 & tested in appliance

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			1.1A, tripping current:1.8A DC 6V, holding current: 1.1A, trip current: 2.2A		
Poly Switch F1,F2,F3 (Alternative)	LITTELFUSE	1206L110THYR	DC 8V, holding current: 1.1A, trip current: 2.2A	UL1434	UL E183209
14a. Poly Switch (F1,F5, F7,SF2,SF8) (alternate)	LITTLEFUSE INC.	1206L300SL WR 1206L110 1812L260TH 0805L260ULTHYR 1206L200, 1206L200PR	PTC, 6 V dc, holding current: 3 A, tripping current: 6 A PTC, 6V dc, 1.1A, tripping current:2.2A 8VDC, holding current 2.6A, trip current 5A	UL1434& IEC/EN 60950-1	UL E183209 & tested in appliance
Poly Switch (F4, F5, F8) (alternate)	LITTELFUSE INC	1210L110THYR	PTC, rated 8V dc, holding current: 1.1 A, trip current: 2.2 A	UL1434	UL
Poly Switch F7 (Alternative)	LITTELFUSE	MF-MSMF260-2	DC 6V, holding current: 2.6A, trip current: 5.2A	UL1434	UL E174545
Poly Switch (U36 U37 U69 U71 for USB) (Alternative)	ANPEC	APL3518ABITRG	DC 5.5V, Holding Current : 2A, trip - Current: 3.6A	UL Subject 2367	UL E328191
15. IC Switch (U36, U37,U51, U52,U57, U59, U69, U71, U88)	UPI SEMICONDUCTOR CORP	UP7549TMA5 -25	2.7 to 5.5Vdc, Cont. current: 2A; 6 Vdc, holding current: 2A trip current: 3.1~5A	UL1434	UL E316940 & tested in appliance
15a. IC Switch (U51, U52, U57, U59) (alternate)	NIKO SEMICONDUCTOR CO LTD	GS7612S5MN GS7612S5MNR	2.0-5.5Vdc, Cont. current: 2A; Prot. current: 5A 5.5 Vdc, holding current : 3.2A, trip current: 5.0A	UL2367	UL E360303 & tested in appliance
IC Switch (U3 on optional USB type C module)	Global Mixedmode Technology Inc	G517AL	2.7-5.5Vdc, Cont. Current: 0.1A-2.15A; Prot. current: 0.2A-2.75A	IEC/EN 60950-1	TUV CB Cert. No. JPTUV- 071444

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16.Heat sink (above CPU)	-	-	Consist of Aluminum part, overall	-	-
17. Heat sink (above South Bridge chipset)	-	-	Consist of Aluminum part, overall	-	-
18. Insulating tubing/Sleeving	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; 105 degree C, 300 V.	UL224	UL
19. Wiring, Internal secondary ELV/SELV Circuits	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; min 30 V, 60 or 80 degree C.	UL758	UL
20. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	60 degree C min., 60 V min., 3.05 m long max, VW-1 or FT-1	UL758	UL
21. Internal Plastic Part Materials	Interchangeable	Interchangeable	V-2 min.	UL94, UL746C	UL
22. Connectors And Receptacles (Secondary ELV/SELV circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 min.	UL94, UL746C	UL
22a. Connectors And Receptacles (Secondary ELV/SELV circuits) (alternate)	Interchangeable	Interchangeable	plastic rated V-2 min.	UL498,UL1977	UL
23. Power Supply Cord	Interchangeable	Interchangeable	----	NBR 14136, NBR NM 60884-1	INMETRO

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Power Supply Cord (Optional)	Interchangeable	Interchangeable	Type SVT or SPT-2, minimum 18 AWG, min 250 V, 6 A. One end with NEMA 5-15P. Other end in appliance coupler	UL62+ UL498, UL817, IEC60799	--
24. Graphics card	Shenzhen Bitland Information Technology Co., Ltd.	BD3E56 BD3F09 BD3G10 (P/N: GT 730) BD3E32(Marketing Name: GTX 750Ti) BD3F86 (P/N: GT 730)	DC 12V, 5.5Amax; and DC 3.3V, 3A max; Class III DC 12V; 3.3V; Class III DC 3.3V, 3A; 12V, 5.5A max(optional); Class III	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV-059969 and JPTUV-063517-M1 JPTUV-076247
24a. Graphics card (Alternate)	Micro-Star Int'l Co., Ltd.	V313 V338 (P/N: GT 730)	DC 3.3V; 12V(optional); Class III	UL 60950-1, IEC/EN 60950-1	TUV CB Cert. No. JPTUV-059127 TUV CB Cert. No. JPTUV-068607
24b. Graphics card (Alternate)	Interchangeable	Interchangeable	DC 3.3V; 12V(optional); Class III DC 12V, 5.5A max. or DC 3.3V, 3A max., Class III, 41W	UL 60950-1, IEC/EN 60950-1	TUV, VDE, Nemko UL, EU Certification Approved
24c. Graphics Card	NVIDIA CORP	P2012 (P/N: K420)	PCI-E interface, DVI and DISPLAY output ports.	-	-
Graphics Card	NVIDIA CORP	Quadro420	DC 12V, 5.5A max. or DC 3.3V, 3A max., Class III, 41W	IEC/EN 60950-1	Tested in appliance
24c-1. PWB	Interchangeable	Interchangeable	V-1 or better, min. 105 degree C	UL796	UL
24c-2. DC Fan	Interchangeable	Interchangeable	min. 3.03 CFM	UL507, IEC60335, IEC60950-1	UL, TUV

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24c-3. IC switch (U506) for DISPLAY	ANPEC ELECTRONICS CORP	APL3516AKITRG	Rated 2.9 to 3.7 V dc, holding current: 0.9A, tripping current:1.7A	UL2367	UL
25. Plastic Base	Interchangeable	Interchangeable	min. HB	UL94, UL746C	UL
USB Power Switch SF3,SF5) (Alternate)	POLYTRONICS TECHNOLOGY CORP	SMD1206P300 SLR(\$)	PTC, 6 V dc, 3A, tripping current:6A	UL 2367& IEC/EN 60950-1	UL E201431 & tested in appliance
USB Power Switch SU1,SU34)	Nuvoton Technology Corp	NCT3955Y	Input Voltage Range, V dc 4.5 V - 5.5 V Continuous Output Rating, A per output 2.5 A Protective Current Rating, A +3.5 A	IEC/EN 60950-1	TUV CB Cert SG-OF-12624
USB Power Switch (SU1,SU34) (Alternate)	PERICOM TECHNOLOGY (SHANGHAI)CO LTD	PI5USB2546ZH E	Input Voltage: 4.5 - 5.5 Vdc; Continuous Rating: 30 mA to 2.5 A Current Limit:100 mA to 3.18 A	IEC/EN 60950-1	UL CB Cert. No.US-24707-UL
USB power switch (SU69)	TEXAS INSTRUMENTS INC	TPS2546	Rated: DC 4.5-5.5V, holding current: 2.5A, trip current: 3.1A	UL 1434 & IEC/EN 60950-1	UL E169910 & tested with equipment
	Interchangeable	Interchangeable			
PCB for motherboard	GOLDEN ELITE TECHNOLOGY (SHEN ZHEN) LTD	GE-1	V-0, min. 1.5mm, 130 °C	UL796 & IEC/EN 60950-1	UL E307069 & tested in appliance
PCB for motherboard (Alternative)	Interchangeable	Interchangeable	V-1 or better, min. 1.5mm, min. 105 °C	UL796 :2010	UL approved
PCB for battery box	TRUSTECH ELECTRONICS (SHENZHEN) CO LTD	CL-2	V-0, min. 1.5mm, 130 °C	UL796, IEC/EN 60950-1	UL E241819 & tested in appliance

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PCB for battery box (Alternative)	Interchangeable	Interchangeable	V-1 or better, min. 1.5mm, min. 130 °C/ 105° C	UL796:2010	UL approved
PCB	CHUAN YICOMPUTER (SHENZHEN) CO LTD	CM-4	V-0, min. 1.5mm, 130 °C	Applicable parts of IEC/EN 60950-1	UL E162264 & tested in appliance
PCB	HANNSTAR BOARD CORP	MV-4	V-0, min. 1.5mm, max. 130°C	UL 94, UL 796	UL E89382
PCB (Alternative)	PALWONN ELECTRONICS (SHENZHEN) CO LTD	M3	V-0, min. 1.5mm, 130 °C	Applicable parts of IEC/EN 60950-1	UL E230435 & tested in appliance
PCB (Alternative)	HANNSTAR BOARD CORP	MV-1	V-0, min. 1.5mm, 130 °C	UL 796	UL E89382
Li-ion Battery Pack (Optional)	SONY TAIWAN LTD	45N1040	10.8 Vdc, 2.9 Ah / 32 Wh	IEC/EN 60950-1	UL CB report.No. E236872- A131-CB-2
Rubber	Interchangeable	Interchangeable	Min V-1, Min 1.0mm thick, filled in the metal enclosure bottom openings as part of fire enclosure.	UL94, UL746C	UL
01. Cord set (Optional)	Interchangable	Interchangable	---	NBR 14136, NBR NM 60884-1	INMETRO
02. Interconnecting Cable (optional)	Interchangeable	Interchangeable	Max. 3.05m long, rated VW-1 or FT-1 or better.	UL758, UL1675, UL444	UL, --
02a. Interconnecting Cable (optional) - alternate	Interchangeable	Interchangeable	Maximum 3.05m long, type CMP, CMR, CMG, CM.	UL444	--, UL

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02b. Interconnecting Cable (optional) - alternate	Interchangeable	Interchangeable	With RJ-45 type connector.	UL1863	--, UL
03. Label	Interchangeable	Interchangeable	Min. 60 degree C, suitable for the surface supplied.	UL969	UL, --
03a. Label - alternate	Interchangeable	Interchangeable	Molded as part of enclosure, Hot stamping, laser etching or silk screened.	--	--, --
04. Wiring, Internal (Secondary SELV circuits)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; 80 degree C, Min. 30Vdc.	UL758	UL, --
05. Connectors and Receptacles (Secondary ELV/SELV circuits)	Interchangeable	Interchangeable	Metal/ Coper alloy pins housed in bodies of plastic rated Min. V-2.	UL94	UL, --
05a. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	--	UL1977, UL498	UL, --
05b. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are mounted on V-1 class material.	--	--, --
05c. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	--	--, --

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06. Internal Plastic Parts Materials	Interchangeable	Interchangeable	Min. V-2, or Min. HF-2.	UL94	UL, --
06a. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Min. HB or HBF, when foamed plastic parts are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	UL94	UL, --
06b. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	The combination, when one or more layers of thin insulating material used on the surface application, comply with V-2 class material within the fire enclosure.	--	--, --
06c. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are mounted on V-1 class material.	--	--, --
06d. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	--	--, --

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07. Insulating Tubing/ Sleeving	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1.	UL224	UL, --
08. Printed Wiring Board (PWB)	Interchangeable	Interchangeable	Min. V-1, Min. 105 degree C.	UL796	UL, --
09. Enclosure	--	--	Metal, Min. 0.6mm thick. See enclosure 4- 01 for detail.	--	--, --
09-01. Enclosure (Front Bezel & Rear side)	Interchangeable	Interchangeable	HB or better.	UL94	UL, --
10. Foot Rubber (filled in metal enclosure)	Interchangeable	Interchangeable	V-1 or better, min. 1.0mm thickness, filled in the metal enclosure bottom openings as part of fire enclosure.	UL94, UL746C	UL, --
11. Power supply (for unit with rating 3.25A)	DELTA ELECTRONICS INC	ADP-65FD B	Input: 100-240Vac, 1.5A, 50-60Hz; Output: 20Vdc, 3.25A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E131881), CB by UL (DK-39157-UL)
11a. Power supply (for unit with rating 3.25A) - alternate	LITE-ON TECHNOLOGY CORP	PA-1650-72	AC Input: 100-240Vac, 50-60Hz, 1.8A; DC Output: 20Vdc/ 3.25A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-057469)
11b. Power supply (for unit with rating 3.25A) - alternate	CHICONY POWER TECHNOLOGY CO LTD	A17-065N2A	Input: 1.8A 100-240V~ 50-60Hz; Output: 3.25A, 20V; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E143709), CB by Nemko (NO99354)

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11c. Power supply (for unit with rating 3.25A) - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 3.25A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
11d. Power supply (for unit with rating 3.25A or 4.5A) - alternate	DELTA ELECTRONICS INC	ADP-90XD B	Input: AC 100-240V, 1.5A, 50-60Hz; Output: 20Vdc/4.5A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E131881), CB by UL (DK-39163-UL)
11e. Power supply (for unit with rating 3.25A or 4.5A) - alternate	LITE-ON TECHNOLOGY CORP	PA-1900-72	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 4.5A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-044681- M2)
11f. Power supply (for unit with rating 3.25A or 4.5A) - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 4.5A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
11g. Power supply - alternate	DELTA ELECTRONICS INC	ADL135NDC3A	Input: 100-240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC62368-1	UL (E131881), CB by UL (DK-63818-UL)
11h. Power supply - alternate	LITE-ON TECHNOLOGY CORP	ADL135NLC3A	Input: 100-240Vac, 50-60Hz, 2.5A; Output: 20Vdc, 6.75A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-062043)
11i. Power supply - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 6.75A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
12. Hard Disk (optional)	SEAGATE TECHNOLOGY L L C	ST3	12Vdc, 1.5A maximum, 5Vdc, 1.5A maximum.	UL60950-1, IEC60950-1	UL (E106814), --

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12a. Hard Disk (optional) - alternate	Interchangeable	Interchangeable	5/12 V dc, 3.0/3.0A max.	UL60950-1, IEC60950-1	UL, --
13. Optical Disk Drive (optional)	LG ELECTRONICS INC	GUAX#, GUCx#, GUEX# DUCx#, DUEX#	DC 5V, 1.5A, Class III, CLASS 1 LASER PRODUCT.	UL60950-1	UL (E119002), --
13a. Optical Device Drive (optional) - alternate	Interchangeable	Interchangeable	Class 1 laser, 5/12Vdc, 3.0/3.0A max. Class III.	UL60950-1	UL, --
14. CPU Fan	FOXCONN TECHNOLOGY CO LTD	PVB070E12H-P01	12V, 0.95A, 17.5CFM.	UL507	UL (E231557), --
14-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-04 for details.	--	--, --
14a. CPU Fan - alternate	ASIA VITAL COMPONENTS CO LTD	BAZA0817R2UP003	12V, 0.80A, 20.3CFM.	UL507	UL (E158191), --
14a-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-02 for details.	--	--, --
14b. CPU Fan - alternate	DELTA ELECTRONICS INC	BUC0812VD-02	12V, 1.60A, 20.25CFM.	UL507, IEC60950-1	UL (E132003), TUV RH
14b-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-03 for details.	--	--, --
14c. CPU Fan - alternate	Interchangeable	Interchangeable	Max. 12Vdc, 1.60A max., min. 17.5CFM.	UL507	UL, --
15. Mother Board	Interchangeable	IQ3X0IL	--	--	--, --

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15-01. RTC Battery	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	CR2032*	3Vdc, maximum abnormal charging current 10mA, user replaceable against charging current by multiple components PD203 and PR224 rated 1Kohm.	UL1642	UL (MH12210), --
15-01a. RTC Battery - alternate	VIC-DAWN ENTERPRISE CO LTD	CR2032	3Vdc, maximum abnormal charging current 10mA, user replaceable against charging current by multiple components PD203 and PR224 rated 1Kohm.	UL1642	UL (MH20550), --
15-02. Polyswitch (F2, F10)	BOURNS ELECTRONICS (TAIWAN) LTD	MF-USMF110	6Vdc, Ih=1.1A, It=2.2A, CA=1 (max. 110), 2, 3, 4. Tmoa=85 degree, C2.	UL1434, UL60730-1	UL (E174545), --
15-02a. Polyswitch (F2, F10) - alternate	LITTELFUSE INC	MICROSMD110F-2	6Vdc, Ih=1.1A, It=2.2A, CA=1 (max. 125), 2, 3, 4. Tmoa=85 degree, C1.	UL1434, UL60730-1	UL (E74889), --
15-03. USB Polyswitch (U27, U28, U29, U30)	UPI SEMICONDUCTOR CORP	Series uP7549, following by P, Q, R, S, T or U, then following by S8, SA8, M5, MA5, MC5, RA8 or RU8, then following by 25	2.7 to 5.5VDC, Cont.current:2.0 A, Prot.current:5.0 A, Temp range:-30 degree C to 70 degree C, TNC:1.	UL2367	UL (E316940), --
15-03a. USB Polyswitch (U27, U28, U29, U30) - alternate	POLYTRONICS TECHNOLOGY CORP	AX87, followed by 13, 23, followed by S, B, U8, may be followed by A	2.5 to 5.5VDC, Cont.current:2.0 A, Prot.current:3.8 A, Temp range:-30 degree C to 70 degree C.	UL2367	UL (E353665), --

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15-04. USB Polyswitch (U59)	TEXAS INSTRUMENTS INC	SN1702001, may be followed by additional suffixes.	Range: 4.5V-5.5V, Cont.current:2.5 A, Prot.current:3.1 A, Temp Range:-40 to 85 degree C, TNC 1.	UL2367	UL (E169910), --
15-04a. USB Polyswitch (U59) - alternate	ANPEC ELECTRONICSCORP	APL3524QBI-TRG	Range: 4.5V-5.5V, Cont.current:0.15-2.5A, Prot.current:0.275-3.17A, Temp Range:-30 to 70 degree C, TNC 1.	UL2367	UL (E328191), --
15-04b. USB Polyswitch (U59) - alternate	PERICOM SEMICONDUCTOR CORP	PI5USB2546HZHDE	Range: 4.5V-5.5V, Cont.current:0.03-2.5A, Prot.current:0.1-3.18A, Temp Range:-30 to 70 degree C, TNC 1.	UL2367	UL (E340734), --
15-05. USB Polyswitch (U45)	LITTELFUSE INC	AX8714, followed by FL, FH, followed by BTA, BA, SA, or U8A	Range: 2.9V-5.5V, Cont.current:3A, Prot.current:4.2 A, Temp Range:-30 to 70 degree C.	UL2367	UL (E353665), --
01. Power Supply Cord (optional)	Interchangeable	Interchangeable	Detachable, Min. 1.5m, Max. 4.5m long, 16 AWG Min. Type SVT or SJT or SPT-2 or NISPT-2 flexible cord, rated Min. 125V, if one end terminated in NEMA 5-15P; rated Min. 250V, if one end terminated in NEMA 6-15P, the other end in an appliance coupler.	UL817, UL62, UL498	UL, --
02. Interconnecting Cable (optional)	Interchangeable	Interchangeable	Max. 3.05m long, rated VW-1 or FT-1 or better.	UL758, UL1675, UL444	UL, --

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02a. Interconnecting Cable (optional) - alternate	Interchangeable	Interchangeable	Maximum 3.05m long, type CMP, CMR, CMG, CM.	UL444	--, UL
02b. Interconnecting Cable (optional) - alternate	Interchangeable	Interchangeable	With RJ-45 type connector.	UL1863	--, UL
03. Label	Interchangeable	Interchangeable	Min. 60 degree C, suitable for the surface supplied.	UL969	UL, --
03a. Label - alternate	Interchangeable	Interchangeable	Molded as part of enclosure, Hot stamping, laser etching or silk screened.	--	--, --
04. Wiring, Internal (Secondary SELV circuits)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1; 80 degree C, Min. 30Vdc.	UL758	UL, --
05. Connectors and Receptacles (Secondary ELV/SELV circuits)	Interchangeable	Interchangeable	Metal/ Coper alloy pins housed in bodies of plastic rated Min. V-2.	UL94	UL, --
05a. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	--	UL1977, UL498	UL, --
05b. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are mounted on V-1 class material.	--	--, --
05c. Connectors and Receptacles (Secondary ELV/SELV circuits) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are separated from electrical parts (other than insulated wires and cables) by at least	--	--, --

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			13mm of air or by a solid barrier of V-1 class material.		
06. Internal Plastic Parts Materials	Interchangeable	Interchangeable	Min. V-2, or Min. HF-2.	UL94	UL, --
06a. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Min. HB or HBF, when foamed plastic parts are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	UL94	UL, --
06b. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	The combination, when one or more layers of thin insulating material used on the surface application, comply with V-2 class material within the fire enclosure.	--	--, --
06c. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are mounted on V-1 class material.	--	--, --
06d. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a	--	--, --

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			solid barrier of V-1 class material.		
07. Insulating Tubing/ Sleeveing	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1.	UL224	UL, --
08. Printed Wiring Board (PWB)	Interchangeable	Interchangeable	Min. V-1, Min. 105 degree C.	UL796	UL, --
09. Enclosure	--	--	Metal, Min. 0.6mm thick. See enclosure 4- 01 for detail.	--	--, --
09-01. Enclosure (Front Bezel & Rear side)	Interchangeable	Interchangeable	HB or better.	UL94	UL, --
10. Foot Rubber (filled in metal enclosure)	Interchangeable	Interchangeable	V-1 or better, min. 1.0mm thickness, filled in the metal enclosure bottom openings as part of fire enclosure.	UL94, UL746C	UL, --
11. Power supply (for unit with rating 3.25A)	DELTA ELECTRONICS INC	ADP-65FD B	Input: 100-240Vac, 1.5A, 50-60Hz; Output: 20Vdc, 3.25A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E131881), CB by UL (DK-39157-UL)
11a. Power supply (for unit with rating 3.25A) - alternate	LITE-ON TECHNOLOGY CORP	PA-1650-72	AC Input: 100-240Vac, 50-60Hz, 1.8A; DC Output: 20Vdc/ 3.25A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-057469)

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11b. Power supply (for unit with rating 3.25A) - alternate	CHICONY POWER TECHNOLOGY CO LTD	A17-065N2A	Input: 1.8A 100-240V~ 50-60Hz; Output: 3.25A, 20V; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E143709), CB by Nemko (NO99354)
11c. Power supply (for unit with rating 3.25A) - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 3.25A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
11d. Power supply (for unit with rating 3.25A or 4.5A) - alternate	DELTA ELECTRONICS INC	ADP-90XD B	Input: AC 100-240V, 1.5A, 50-60Hz; Output: 20Vdc/4.5A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E131881), CB by UL (DK-39163-UL)
11e. Power supply (for unit with rating 3.25A or 4.5A) - alternate	LITE-ON TECHNOLOGY CORP	PA-1900-72	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 4.5A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-044681- M2)
11f. Power supply (for unit with rating 3.25A or 4.5A) - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 4.5A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
11g. Power supply - alternate	DELTA ELECTRONICS INC	ADL135NDC3A	Input: 100-240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A; 40 degree C, LPS, Altitude of operation Up to 5000m.	UL60950-1, IEC62368-1	UL (E131881), CB by UL (DK-63818-UL)
11h. Power supply - alternate	LITE-ON TECHNOLOGY CORP	ADL135NLC3A	Input: 100-240Vac, 50-60Hz, 2.5A; Output: 20Vdc, 6.75A; 40 degree C, Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL (E132068), CB by TUV RH (JPTUV-062043)

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11i. Power supply - alternate	Interchangeable	Interchangeable	Output: 20Vdc, min. 6.75A; 35 degree C min., Altitude of operation Up to 5000m.	UL60950-1, IEC60950-1	UL, CB
12. Hard Disk (optional)	SEAGATE TECHNOLOGY L L C	ST3	12Vdc, 1.5A maximum, 5Vdc, 1.5A maximum.	UL60950-1, IEC60950-1	UL (E106814), --
12a. Hard Disk (optional) - alternate	Interchangeable	Interchangeable	5/12 V dc, 3.0/3.0A max.	UL60950-1, IEC60950-1	UL, --
13. Optical Disk Drive (optional)	LG ELECTRONICS INC	GUAX#, GUCx#, GUEX# DUCx#, DUEX#	DC 5V, 1.5A, Class III, CLASS 1 LASER PRODUCT.	UL60950-1	UL (E119002), --
13a. Optical Device Drive (optional) - alternate	Interchangeable	Interchangeable	Class 1 laser, 5/12Vdc, 3.0/3.0A max. Class III.	UL60950-1	UL, --
14. CPU Fan	FOXCONN TECHNOLOGY CO LTD	PVB070E12H-P01	12V, 0.95A, 17.5CFM.	UL507	UL (E231557), --
14-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-04 for details.	--	--, --
14a. CPU Fan - alternate	ASIA VITAL COMPONENTS CO LTD	BAZA0817R2UP003	12V, 0.80A, 20.3CFM.	UL507	UL (E158191), --
14a-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-02 for details.	--	--, --
14b. CPU Fan - alternate	DELTA ELECTRONICS INC	BUC0812VD-02	12V, 1.60A, 20.25CFM.	UL507, IEC60950-1	UL (E132003), TUV RH
14b-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-03 for details.	--	--, --

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14c. CPU Fan - alternate	Interchangeable	Interchangeable	Max. 12Vdc, 1.60A max., min. 17.5CFM.	UL507	UL, --
15. Mother Board	Interchangeable	IQ3X0IL	--	--	--, --
15-01. RTC Battery	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	CR2032*	3Vdc, maximum abnormal charging current 10mA, user replaceable against charging current by multiple components PD203 and PR224 rated 1Kohm.	UL1642	UL (MH12210), --
15-01a. RTC Battery - alternate	VIC-DAWN ENTERPRISE CO LTD	CR2032	3Vdc, maximum abnormal charging current 10mA, user replaceable against charging current by multiple components PD203 and PR224 rated 1Kohm.	UL 1642	UL (MH20550), --
15-02. Polyswitch (F2, F10)	BOURNS ELECTRONICS (TAIWAN) LTD	MF-USMF110	6Vdc, Ih=1.1A, It=2.2A, CA=1 (max. 110), 2, 3, 4. Tmoa=85 degree, C2.	UL 1434, UL60730-1	UL (E174545), --
15-02a. Polyswitch (F2, F10) - alternate	LITTELFUSE INC	MICROSMD110F-2	6Vdc, Ih=1.1A, It=2.2A, CA=1 (max. 125), 2, 3, 4. Tmoa=85 degree, C1.	UL 1434, UL60730-1	UL (E74889), --
15-03. USB Polyswitch (U27, U28, U29, U30)	UPI SEMICONDUCTOR CORP	Series uP7549, following by P, Q, R, S, T or U, then following by S8, SA8, M5, MA5, MC5, RA8 or RU8, then following by 25	2.7 to 5.5VDC, Cont.current:2.0 A, Prot.current:5.0 A, Temp range:-30 degree C to 70 degree C, TNC:1.	UL2367	UL (E316940), --

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15-03a. USB Polyswitch (U27, U28, U29, U30) - alternate	POLYTRONICS TECHNOLOGY CORP	AX87, followed by 13, 23, followed by S, B, U8, may be followed by A	2.5 to 5.5VDC, Cont.current:2.0 A, Prot.current:3.8 A, Temp range:-30 degree C to 70 degree C.	UL2367	UL (E353665), --
15-04. USB Polyswitch (U59)	TEXAS INSTRUMENTS INC	SN1702001, may be followed by additional suffixes.	Range: 4.5V-5.5V, Cont.current:2.5 A, Prot.current:3.1 A, Temp Range:-40 to 85 degree C, TNC 1.	UL2367	UL (E169910), --
15-04a. USB Polyswitch (U59) - alternate	ANPEC ELECTRONICS CORP	APL3524QBI-TRG	Range: 4.5V-5.5V, Cont.current:0.1 5-2.5A, Prot.current:0.2 75-3.17A, Temp Range:-30 to 70 degree C, TNC 1.	UL2367	UL (E328191), --
15-04b. USB Polyswitch (U59) - alternate	PERICOM SEMICONDUCTOR CORP	PI5USB2546HZHDE	Range: 4.5V-5.5V, Cont.current:0.0 3-2.5A, Prot.current:0.1 -3.18A, Temp Range:-30 to 70 degree C, TNC 1.	UL2367	UL (E340734), --
15-05. USB Polyswitch (U45)	LITTELFUSE INC	AX8714, followed by FL, FH, followed by BTA, BA, SA, or U8A	Range: 2.9V-5.5V, Cont.current:3A, Prot.current:4.2 A, Temp Range:-30 to 70 degree C.	UL2367	UL (E353665), --
Cord set (Optional)	Interchangable	Interchangable	---	NBR 14136, NBR NM 60884-1	INMETRO
Metal enclosure	Interchangable	Interchangable	Overall 89mm x 257mm x 340mm, min. 0.6mm thickness	IEC/EN 60950-1, UL 60950-1	Test with equipment
Plastic Front Panel	KINGFA SCI & TECH CO LTD	GAR-011	HB, min 0.80mm thick.	UL94, UL746C	UL E171666

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Plastic Front Panel (Alternative)	BASF SE	GP-22	HB, min 0.80mm thick.	UL94, UL746C	UL E41871
Plastic Front Panel (Alternative)	KINGFA SCI & TECH CO LTD	FLEXBOND-10(n), KFLEX-2(n) (n:two digits to denote 1-50% Mineral Filler Content)	HB, min 0.80mm thick.	UL94, UL746C	UL E171666
Plastic Front Panel (Alternative)	KINGFA SCI & TECH CO LTD	JH960 6(M), JH960 6(M) (ccc) (##), JH960-6(M) (ccc) (##) (M: three digits to represent customer reference number; ccc: any combinations of any letters excluding a letter "X" and/or any numerals for their special application may or may not follow; ##:ten digits maximum by a combination of letters and/or numbers as color code.)	HB, min 0.80mm thick.	UL94, UL746C	UL E171666
Plastic Front Panel (Alternative)	Interchangeable	Interchangeable	HB or better, min. 0.8 mm thickness.	UL 94, UL 764C	UL approved
Plastic Front Panel (Dust Cover) (Optional)	KINGFA SCI & TECH CO LTD	GAR-011	HB, min 0.80mm thick.	UL94, UL746C	UL E171666
Plastic Front Panel (Dust Cover) (Optional) (Alternative)	BASF SE	GP-22	HB, min 0.80mm thick.	UL94, UL746C	UL E41871
Plastic Front Panel (Dust Cover) (Optional) (Alternative)	KINGFA SCI & TECH CO LTD	FLEXBOND-10(n), KFLEX-2(n) (n:two digits to denote 1-50% Mineral Filler Content)	HB, min 0.80mm thick.	UL94, UL746C	UL E171666
Plastic Front Panel (Dust Cover) (Optional) (Alternative)	KINGFA SCI & TECH CO LTD	JH960 6(M), JH960 6(M) (ccc) (##), JH960-6(M) (ccc) (##) (M: three digits to represent customer reference number; ccc: any combinations of any lettersexcluding a letter "X" and/or any numerals for their special application	V-0, min 0.80mm thick.	UL94, UL746C	UL E171666

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		may or may not follow; ##:ten digits maximum by a combination of letters and/or numbers as color code.)			
Plastic Front Panel (Dust Cover) (Optional) (Alternative)	Interchangeable	Interchangeable	HB or better, min. 0.8 mm thickness.	UL 94, UL 764C	UL approved
PCB	CHUAN YI COMPUTER (SHENZHEN)CO LTD	CM-4	V-0, 130 °C	UL796, UL94, UL764A	UL E162264
PCB (Alternative)	PALWONN ELECTRONICS (SHENZHEN)CO LTD	M3	V-0, 130 °C	UL796, UL94, UL764A	UL E230435
PCB (Alternative)	Interchangeable	Interchangeable	V-1 or better, min.105 °C	UL796, UL94, UL764A	UL approved
PCB for PCI USB Card	CHUAN YI COMPUTER (SHENZHEN)CO LTD	CM-4	V-0, 130 °C	UL796, UL94, UL764A	UL E162264
PCB for PCI USB Card (Alternative)	PALWONN ELECTRONICS (SHENZHEN)CO LTD	M3	V-0, 130 °C	UL796, UL94, UL764A	UL E230435
PCB for PCI USB Card (Alternative)	Interchangeable	Interchangeable	V-1 or better, min.105 °C	UL796, UL94, UL764A	UL approved
Built-in Power Supply	FSP Group Inc.	FSP180-20TGBAB	Input: AC100-240V, 50/60Hz, 3A Output: DC+12V/15A; -12V/0.2A, 180W; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-067200-M1, UL E190414, cUL E190414
Built-in Power Supply (Alternative)	Shenzhen Huntkey Electric Co., Ltd.	HK280-72PP, HK280-72PP xy (x=A-Z or blank, y=0-9 or blank)	Input: AC100-240V, 50/60Hz, 3.0A Output: DC+12V/15A; DC -12V/0.2A; Max.180W;	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: SG-OF-12495, UL E181356, cUL E181356

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			+12V:Max.180 W; -12V:Max.2.4W; Altitude: up to 5000m		
Built-in Power Supply (Alternative)	Lite-On Technology Corporation	PA-2181-2XX (where X=0-9, A-Z, or – or blank, for marketing purpose only no safety impact)	Input: AC100-240V, 50/60Hz, 4A, class I Output: DC+12V, 15A max., DC-12V, 0.2A max.; Total Power: 180W max.; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: DK-61888-UL, UL E132068, cUL E132068
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCG010	Input: AC100-240V, 50/60Hz, 3.0A; Output: DC+12V, 17.5A, DC-12V, 0.2A, 210W; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-078492, UL E131875, cUL E131875
Built-in Power Supply (Alternative)	FSP Group Inc.	FSP210-20TGBAB	Input: AC100-240V, 50/60Hz, 3A Output: DC+12V/17.5A, -12V/0.2A, 210W; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-067200-M1, UL E151113, cUL E151113
Built-in Power Supply (Alternative)	Shenzhen Huntkey Electric Co., Ltd.	HK310-71PP, HK310-71PP xy ("x" =A to Z or blank, "y" = 0 to 9 or blank, for marketing Purpose only)	Input: AC100-240V, 50/60Hz, 3.0A Output: +12V1/17.5A; -12V/0.2A; Max.210W; +12V:Max.210 W; -12V:Max.2.4W; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: SG-OF-12495, UL E181356, cUL E181356
Built-in Power Supply (Alternative)	Lite-On Technology Corporation	PA-2221-3XX (X can be any character or blank)	Input: AC100-240V, 50/60Hz, 3.0A; Output: DC+12V, 17.5A; DC-12V, 0.2A; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-062750, UL E132068, cUL E132068

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Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCE025	Input: AC 100-240V, 3.0A, 50/60 Hz; Output: DC +12V/17.5A, -12.0V/0.2A; Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-062130- M1, UL E131875, cUL E131875
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCH015	I/P: 100-240Vac, 4.0A, 50/60Hz; O/P: +12V1/18.0A, +12V2/18.0A, -12V/0.2 A; total 260W max Altitude: up to 5000m	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, CAN/CSA-C22.2 No. 60950-22	CB Cert. No.: JPTUV-082436- M1, UL E131875, cUL E131875
DC Fan (For CPU)	DELTA ELECTRONICS INC	BUC1012VJ-00DHA	DC 12V, 1.0A, 20.98CFM	UL 507, CSA-C22.2 No. 113	UL E132003, cUL E132003
DC Fan (For CPU) (Alternative)	ASIA VITAL COMPONENTS CO LTD	BAZC0925R2UP006	DC 12V, 0.9A, 24.39CFM	UL 507, CSA-C22.2 No. 113	UL E158191, cUL E158191
DC Fan (For CPU) (Alternative)	Interchangeable	Interchangeable	DC 12V, 1.0A max., 20.98CFM min.	UL 507, CSA-C22.2 No. 113	UL and CSA approved
Optical Device Drive (Optional)	Hitachi-LG Data Storage inc.	CH20N	Class 1 laser, DC 5/12 V, 1.5/1.5 A.	IEC/EN 60825-1	Intertek S Certificate: 911330
Optical Device Drive (Optional) (Alternative)	Interchangeable	Interchangeable	Class 1(I), 5V/12Vdc, 3.0A/3.0A max.	IEC/EN 60825-1	TUV, VDE, Nemko approved
Hard Disk Drive (Optional)	SEAGATE TECHNOLOGY L L C	ST2000DM001	5 V/12 Vdc, 1.5A max	UL 60950-1, CAN/CSA C22.2 No. 60950-1	UL E106814, cUL E106814
Hard Disk Drive (Optional) (Alternative)	Interchangeable	Interchangeable	5 V/12 Vdc, 3.0A/3.0 A max.	UL 60950-1, CAN/CSA C22.2 No. 60950-1, IEC/EN 60950-1	UL and CSA approved, TUV, VDE, Nemko approved

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Solid State Drive (Optional)	Samsung Eletronics Co., Ltd.	MZ-W***** (* is 0-9, A-Z or blank or slash or dash. 1st * means Line-up 2nd* means SSD controller 3rd, 4th, 5th * means SSD capacity 6th * means customized design 7th~10th * means customer list reference)	DC 12V, 1.85A or 2.5A	IEC/EN 60950-1, UL 60950-1, CAN/CSA C22.2 No. 60950-1	UL CB Cert. No.: DK-57680-UL, UL E149091, cUL E149091
Solid State Drive (Optional) (Alternative)	Interchangeable	Interchangeable	DC 12V, 2.5A max.	UL 60950-1, CAN/CSA C22.2 No. 60950-1	UL and CSA approved
Lithium Battery for RTC	VIC-DAWN ENTERPRISE CO LTD	CR2032	3 Vdc, maximum abnormal charging current 10 mA (Lithium Type)	UL 1642	UL MH20550
Lithium Battery for RTC (Alternative)	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	CR2032	3 Vdc, maximum abnormal charging current 10 mA (Lithium Type)	UL 1642	UL MH12210
Lithium Battery for RTC (Alternative)	MAXELL, LTD	CR2032	3 Vdc, maximum abnormal charging current 10 mA (Lithium Type)	UL 1642	UL MH12568
Poly Switch (F1, F2, F3)	BOURNS ELECTRONICS (TAIWAN) LTD	MF-USMF110	PTC, rated 6Vdc, holding current: 1.1 A, trip current: 2.2 A	UL 1434, CSA-C22.2 No. 72	UL E174545, cUL E174545
Poly Switch (F1, F2, F3) (Alternative)	TYCO ELECTRONICS CORP	microSMD110, microSMD110(11)F	PTC, rated 6V dc, holding current: 1.1 A, trip current: 2.2A	UL 1434, CSA-C22.2 No. 72	UL E74889, cUL E74889
Poly Switch (F1, F2, F3) (Alternative)	POLYTRONICS TECHNOLOGY CORP	SMD1210P110TFT	PTC, rated 8Vdc, holding current: 1.1 A, trip current: 2.2 A	UL 1434, CSA-C22.2 No. 72	UL E201431, cUL E201431
Poly Switch (F1, F2, F3) (Alternative)	LITTELFUSE INC	1210L110THYR, 1210L110TH	PTC, rated 8Vdc, holding current: 1.1 A, trip current: 2.2A	UL 1434, CSA-C22.2 No. 72	UL E183209, cUL E183209

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IC Switch (U10, U23, U30, U33, U57, U59 U71, U74)	UPI SEMICONDUCTOR CORP	UP7549TMA5-25	2.7 to 5.5Vdc, Cont. current: 2.0A; Prot. current: 5.0A	UL 2367	UL E316940
IC Switch (U10, U23, U30, U33, U57, U59 U71, U74) (Alternative)	NIKO SEMICONDUCTOR CO LTD	GS7612S5MN, GS7632S5MN, GS7632S5MNR	2.0-5.5Vdc, Cont. current: 2.0A; Prot. current: 5.0A	UL 2367	UL E360303
IC Switch (U10, U23, U30, U33, U57, U59 U71, U74) (Alternative)	TEXAS INSTRUMENTS INC	TPS2001DDBVR, TPS2001	4.5-5.5Vdc, Cont. current: 2.0A; Prot. current: 3.6A	UL 2367	UL E169910
Heat Sink (above CPU)	--	--	Consist of Aluminum part	--	--
Graphics Card (Optional)	Shenzhen Bitland Information Technology Co., Ltd.	BD3G10 (P/N: GT 730)	DC 12V, 5.5A max; and DC 3.3V, 3A max; Class III	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.:JPTUV- 076247, UL E356357, cUL E356357
Graphics Card (Optional) (Alternative)	Interchangeable	Interchangeable	DC 3.3V, DC12V (optional); Class III	UL 60950-1, CAN/CSA-C22.2 No. 60950-1	UL and CSA approved
Power Distribution Switch F5 for VGA&COM1 port (CN4)	Bourns Inc.	MF-NSMF110	Input: 6 Vdc, hold current: 1.10 A	-	TUV, UL
Power Distribution Switch F6 for DP port (J20)	Bourns Inc.	MF-NSMF110	Input: 6 Vdc, hold current: 1.10 A	-	TUV, UL
Power Distribution Switch F8 for HDMI port (J18)	Bourns Inc.	MF-NSMF110	Input: 6 Vdc, hold current: 1.10 A	-	TUV, UL
Power Distribution Switch U52 for USB 3.0 port (P152)	Texas Instruments Inc.	TPS2061C	Input Voltage: 4.5 to 5.5 Vdc Output Continuous Rating: 1.0A Output Current Limit: 1,9 A	-	TUV, UL

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Motherboard	Interchangeable	Interchangeable	-	-	-
Graphics card	Shenzhen Bitland Information Technology Co Ltd	BD3I69	DC 3.3 A, 12 V, Class III	-	TUV, UL
Dust Cover, Stand (Optional) (Alternative)	DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABS-PCR35/65/85, HL-HIPS-PCR35/65/85, HL-ABS-PCR65	HB, 60°C, min. 1.6mm thickness.	UL 746C, UL 94, CSA-C22.2 No. 0.17	UL E345434, cUL E345434
Poly Switch (SF1, SF2) (Alternative)	POLYTRONICS TECHNOLOGY CORP	SMD1206P200T FT	Rated: 6.0V dc, holding current: 2.0A, trip current: 3.5A	IEC/EN 60738-1, UL 1434, CSA-C22.2 No.72	TUV R 50099121, UL E201431, cUL E201431
Plastic Front Panel	SABIC INNOVATIVE PLASTICS US LLC	925A	HB or better, min. 1.0 mm thickness.	UL 94, UL 764C	UL E121562
Plastic Front Panel (Alternative)	KINGFA SCI & TECH CO LTD	HP-126	HB or better, min. 1.0 mm thickness.	UL 94, UL 764C	UL E171666
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCJ010	Input: AC100-240V, 50/60Hz, 3.0A Output: DC+12V/15A; DC -12V/0.2A; Max.180W; +12V:Max.180 W; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-101485, UL E131875, cUL E131875
Built-in Power Supply (Alternative)	FSP GROUP INC.	FSP180-20TLA	Input: AC100-240V, 50/60Hz, 3A, class I Output: DC+12V, 15A max., DC-12V, 0.2A max.; Total Power: 180W max.; Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: DK-88801-UL, UL E190414, cUL E190414

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Built-in Power Supply (Alternative)	SHENZHEN HUNTKEY ELECTRIC CO LTD	HK360-71PPxy (x=A-Z or blank, y=0-9 or blank, for different market)	Input: AC100-240V, 50/60Hz, 5A, class I Output: DC+12V, 21.5A, DC-12V, 0.2A ; Total Power: 260W max.; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: DK-89030-UL, UL E181356, cUL E181356
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCK012	Input: AC100-240V, 50/60Hz, 4A, class Output: DC+12V, 21.5A, DC-12V, 0.2A ; Total Power: 260W; +12V:Max.260W; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-101667, UL E131875, UL E131875
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCK014	Input: AC100-240V, 50/60Hz, 5A, class I Output: DC+12V1, 30A, DC+12V2, 18A, DC-12V, 0.2A ; Total Power: 380W max.; +12V:Max.380W. -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-101675, UL E131875, cUL E131875
Built-in Power Supply (Alternative)	Acbel Polytech Inc.	PCJ007	Input: AC100-240V, 50/60Hz, 4A, class I Output: DC+12V1, 18A, DC+12V2, 18A, DC-12V, 0.2A ; Total Power: 310W max.; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-092384, UL E131875, UL E131875

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DC Fan (For System Rear) (Optional)	SHENZHEN DONGWEIFENG ELECTRONIC TECHNOLOGY CO LTD	EFH-08E12W-GP01	DC 12V, 0.7A, 64.9CFM	UL 507, CSA-C22.2 No. 113	UL E305197, UL E305197
Alt.	FSP Group Inc.	FSP260-20TLA	Input: AC 100- 240V, 3.0A, 50/60Hz Output: DC +12V, 21.5A; - 12V,0.2A.	IEC/EN 60950-1	CB Cert. No. DK- 88801-UL
Alt.	Shenzhen Huntkey Electric Co., Ltd.	HK280-73PP xy ("x" =A to Z or blank, "y" = 0 to 9 or blank, for marketing purpose only)	Input: AC 100- 240V, 3.0A, 50/60Hz Output: DC +12V, 15A; - 12V,0.2A.	IEC/EN 60950-1	CB Cert. No. DK- 89075-UL
Optical Device Drive (Optional)	Philips & Lite-On Digital Solutions Corp	DA8AESH	Class 1 laser, 5/12 V dc, 3.0A/1.5 A.	IEC/EN 60825- 1& IEC 60950-1 UL 60950-1	TUV CB Cert. No. JPTUV-052989
Adapter (Optional)	Delta Electronics Inc	ADP-65ME B	Input: 100- 240V~, 50- 60Hz, 1.5A; Output: 20Vdc, 3.25A Altitude: 5000m	IEC/EN 60950-1 UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 101691 UL E131881 cUL E131881
Adapter (Optional) (Alternative)	Lite-On Technology Corporation	PA-1650-74XX (X can be any character or blank)	Input: 100- 240V~, 50- 60Hz, 1.5A; Output: 20Vdc, 3.25A Altitude: 5000m	IEC/EN 60950-1 UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 101957 UL E132068 UL E132068
Adapter (Optional) (Alternative)	Interchangeable	Interchangeable	Input: 100- 240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A Altitude: 5000m	IEC/EN 60950-1 UL 60950-1, CSA-C22.2 No. 60950, or IEC/EN 62368-1 UL 62368-1, CAN/CSA-C22.2 No. 62368-1	UL, CSA, TUV certified
Adapter (Optional) (Alternative)	DELTA ELECTRONICS INC	ADP-90ME B	Input: 100- 240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A Altitude: 5000m	IEC/EN 60950-1 UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 101791 UL E131881 UL E131881
Adapter (Optional) (Alternative)	Lite-On Technology Corporation	PA-1900-74XX (X can be A-Z,0- 9, or hyphen or blank)	Input: 100- 240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 102060 UL E132068 UL E132068

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			Altitude: 5000m		
Adapter (Optional) (Alternative)	CHICONY POWER TECHNOLOGY CO LTD	A19-090P3A	Input: 100- 240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A Altitude: 5000m	IEC/EN 60950-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 101835 UL E143709 UL E143709
Adapter (Optional) (Alternative)	Interchangeable	Interchangeable	Input: 100- 240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A Altitude: 5000m	IEC/EN 60950-1, UL 60950-1, CSA- C22.2 No. 60950, or IEC/EN 62368-1 UL 62368-1, CAN/CSA-C22.2 No. 62368-1	UL, CSA, TUV certified
Adapter (Optional) (Alternative)	DELTA ELECTRONICS INC	ADL170SDC3A	Input: 100- 240V~, 50-60Hz, 2.5A Output: 20Vdc, 8.5A Altitude: 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 095706, JPTUV- 095864, UL(E131881) UL(E131881)
Adapter (Optional) (Alternative)	DELTA ELECTRONICS INC	ADP-170CB B	Input: 100- 240V~, 50-60Hz, 2.5A Output: 20Vdc, 8.5A Altitude: 5000m	IEC/EN 60950-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	UL CB Cert. No.: DK- 87663-UL UL(E131881) UL(E131881)
Adapter (Optional) (Alternative)	LITE-ON TECHNOLOGY CORP	ADL170SLC3A	Input: 100- 240V~, 50-60Hz, 2.5A Output: 20Vdc, 8.5A Altitude: 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	UL CB Cert. No.: DK 81072-A1- UL, DK-81011-UL UL(E132068) UL(E132068)
Adapter (Optional) (Alternative)	Chicony Power Technology Co., Ltd.	ADL170SCC3A	Input: 100- 240V~, 50-60Hz, 2.5A Output: 20Vdc, 8.5A Altitude: 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: JPTUV- 095168, JPTUV- 095261 UL(E143709) UL(E143709)
Adapter (Optional) (Alternative)	Interchangeable	Interchangeable	Input: 100- 240V~, 50-60Hz, 2.5A Output: 20Vdc, 8.5A Altitude: 5000m	IEC/EN 60950-1, UL 60950-1, CSA-C22.2 No. 60950, or IEC/EN 62368-1 UL 62368-1, CAN/CSA-C22.2 No. 62368-1	UL, CSA, TUV certified

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Adapter (Optional) (Alternative)	Lite-On Technology Corporatio	ADL230NLC3* (* can be any character or blank)	Input: 100- 240V~, 50-60 Hz, 3.5A; Output: 20Vdc, 11.5A Altitude: 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: (JPTUV- 079376- M1), UL CB Cert. No.: (DK-65243- UL) UL(E132068) cUL(E132068)
Adapter (Optional) (Alternative)	CHICONY POWER TECHNOLOGY CO LTD	A18-230P1A	A18-230P1A Input: 100- 240V~, 50-60 Hz, 3.5A; Output: 20Vdc, 11.5A Altitude: 5000m	IEC/EN 60950-1 UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV CB Cert. No.: (JPTUV- 090385) UL(E132068) cUL(E132068)
Plastic Front Panel (Alternative)	COVESTRO DEUTSCHLAND AG [PC RESINS]	2407 + (z)(f1) ; 2407 DC (k) ; RW2407 + (z) (f1)	HB, 60°C, min. 1.0mm thickness.	UL 746C, UL 94	UL E41613
PCB (Alternative)	VICTORY GIANT TECHNOLOGY (HUIZHOU) CO LTD	SH	V-0, 130°C	UL 796	UL E248779
PCB (Alternative)	HANNSTAR BOARD CORP	MV-4, MV-6	V-0, 130°C	UL 796	UL E89382
PCB (Alternative)	Interchangeable	Interchangeable	V-1 or better, min. 130°C	UL 796	UL certified
DC Fan (For CPU) (Alternative)	ASIA VITAL COMPONENTS CO LTD	BAZB0817R2UP 006	12Vdc, 1.1A, 19.17CFM.	IEC/EN 60950-1, UL 507, CSA-C22.2 No. 113	TUV B 15 02 25730 895, UL E158191, cUL E158191
DC Fan (For CPU) (Alternative)	DELTA ELECTRONICS INC	BUB0812HD- 01FSG	12Vdc, max. 1.5A, 20.3CFM	UL 507, IEC/EN 60950-1	UL E132003 TUV R 50387001
Optical Device Drive (Optional)	Hitachi-LG Data Storage inc.,	GUAx**, GUC**, GUE**, DUC**, DUE** (the first symbol * can be any number 0-9, the second symbol * can be any alphanumeric character, denoting non safety related differences)	Class 1 laser, 5Vdc, 1.5A	IEC/EN 60950-1, IEC/EN 60825-1, UL 60950-1, CSA-C22.2 No. 60950, Code of Federal Regulations (CFR), Title 21, Part 1040	Intertek CB Cert. No.:SE- 85321M1, UL E119002, cUL E119002, FDA Registration No.: 1830330-001

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1. Label	Interchangeable	Interchangeable	Min. 55 degree C, suitable for the surface applied.	UL969	UL , --
2. Metal Chassis	--	--	Ferrite alloy, Consists of 4 pieces, secured together by physical fit, wedged, and screws. Min. 1.0mm, see Enclosure 4-01 for openings dimension.	--	-- , --
3. Foot Rubber (filled in metal enclosure)	Interchangeable	Interchangeable	V-1 or better, min. 1.0mm thickness, filled in the metal enclosure bottom openings as part of fire enclosure.	UL94, UL746C	UL , --
4. Plastic Front Panel	Interchangeable	Interchangeable	HB or better	UL94, UL746C	UL , --
5. PWB	CHUAN YI COMPUTER (SHENZHEN) CO LTD	CM-1	V-0, 130 degree C.	UL796	UL , --
5a. PWB	Interchangeable	Interchangeable	V-1 or better, min. 105 degree C.	UL796	UL , --
6. Built-in Power Supply	ACBEL POLYTECH INC	PCH018	I/P: 100-240V~, 50/60Hz , 3.6A O/P: +12V1/15A TOTAL POWER 180W MAX. Tma 50 degree C. Altitude 5000m	UL 60950-1, IEC 60950-1, IEC 62368-1:2014, UL62368-1	UL , CB by TUV RH, (Cert. No. JPTUV-078492-A1/M3.) for IEC 60950-1; CB by TUV RH, (Cert. No. JPTUV-078411-M2.) for IEC 60950-1
6a. Built-in Power Supply - alternate	Lite-On Technology Corporation	PA-1181-7YXXX (Y=A-Z or "-" or blank ; X=0-9, A-Z or "-" or blank)	I/P: 100-240V~, 50-60Hz, 3.6A O/P: +12Vdc, 15A MAX, 180W MAX,	UL60950-1, UL62368-1, IEC62368-1:2014	UL , CB by TUV (JPTUV-074489- M3 for IEC 62368- 1)

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			Class I, Altitude of operation up to 5000 m, Tma 50 degree C.		
6b. Built-in Power Supply - alternate	ACBEL POLYTECH INC	PCK027	I/P: 100-240 V~, 50/60Hz, 4.0A; O/P: +12V/21.7A, TOTAL POWER 260W MAX.; Class I, Altitude of operation up to 5000 m, Tma 50 degree C.	IEC60950-1, UL62368-1, IEC62368-1:2014	UL , CB by TUV (JPTUV-102727 for IEC 62368-1, JPTUV-102592 for IEC 60950-1)
6c. Built-in Power Supply - alternate	Lite-On Technology Corporation	PA-1261-7YXXX(Y=A-Z or "-" or blank ; X=0-9, A-Z or "-" or blank)	Input: 100-240Vac, 4A, 50/60Hz; Output: +12V/ 21.7A Max. total power 260W; Class I, Altitude of operation up to 5000 m, Tma 50 degree C.	IEC60950-1, UL62368-1, IEC 62368-1:2014	UL , CB by TUV (JPTUV-103321-A1 for IEC 62368-1, CB by TUV (JPTUV-10335-A1/M2 for IEC 60950-1)
07. Power Supply Cord (optional)	Interchangeable	Interchangeable	Type SVT, SJT or SPT-2, minimum 18 AWG, min 250V, 6A. One end with NEMA 5- 15P, other end in appliance coupler.	UL62+ UL498, UL817	UL , --
08. CPU fan	DELTA ELECTRONICS INC	BUC1012VJ-00XXXXXX (X can be A-Z, 0-9, - or blank) (For marketing purpose only)	12Vdc, 1.0A max, 20.98(min 18.88)CFM.	EN 62368-1:2014	-- , TUV RH(R 50387001)
07. Power Supply Cord (optional)	Interchangeable	Interchangeable	Type SVT, SJT or SPT-2, minimum 18 AWG, min 250V, 6A. One end with NEMA 5- 15P, other end in appliance coupler.	UL62+ UL498, UL817	UL , --
08. CPU fan	DELTA ELECTRONICS INC	BUC1012VJ-00XXXXXX (X can be A-Z, 0-9, - or blank) (For marketing purpose only)	12Vdc, 1.0A max, 20.98(min 18.88)CFM.	EN 62368-1:2014	-- , TUV RH(R 50387001)

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08a. CPU fan	Foxconn Technology Co., Ltd.	PVB120G12Q-P01	12Vdc, 1.2A max, 22.8(min 20.52)CFM.	UL507, EN 62368-1: 2014+A11	UL , --
08a. CPU fan	Interchangeable	Interchangeable	12Vdc, 1.0A max, 20.98(min 18.88)CFM. MS1 or a) degree.	UL507, EN 62368-1: 2014+A11 or latest version	UL , --
08-01. Heat sink for CPU fan	--	--	Consist of Aluminum part, overall see enclosure 4-02 for details.	--	-- , --
09. Optical Device Drive (optional)	Hitachi-LG Data Storage, Inc.	GUA**, GUC**, GUE**, DUE**, DUC** (Where first "*" can be any number 0-9 and second "*" can be anyalphanumeric character, denoting non safety related differences)	DC 5V, 1.5A, CLASS 1 LASER PRODUCT.	UL60950-1, IEC 62368-1:2018	UL , CB by Intertek (SG ITS-20219)
09a. Optical Device Drive (optional) - alternate	Interchangeable	Interchangeable	CLASS 1 LASER, 5Vdc, 1.5A max.	UL 60950-1, UL 62368-1, IEC 62368-1	UL , TUV, VDE, Nemko
10. Solid State Drive/ Hard Disk (optional)	SAMSUNG ELECTRONICS CO LTD	MZ-W *****	DC +12 V ; 1.85 A or 2.5 A	UL60950-1, IEC/EN 60950-1, IEC 62368-1:2018	UL , CB by TUV RH (JPTUV- 109126-M2)
10a. Solid State Drive/ Hard Disk (optional) - alternate	Interchangeable	Interchangeable	Generic, 3.3Vdc, 3.5A max. or 5Vdc, 2.0A max. or 12Vdc, 2.5A max.	UL 60950-1, UL 62368-1, IEC 62368-1	UL , TUV, VDE, Nemko
11. Mother Board	--	--	--	Test with equipment	-- , --
11-01. RTC battery	PANASONIC CORPORATION OF NORTH AMERICA	CR2032	3Vdc, Max Abnormal Charging Current 10mA.	UL1642	UL , --
11-01a. RTC battery- Alternate	DOUBLE BEST CO LTD	CR2032	3Vdc, Max Abnormal Charging Current 10mA.	UL1642	UL , --

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11-01b. RTC battery - Alternate	Interchangeable	CR2032	3Vdc, Max Abnormal Charging Current 10mA.	UL1642	UL, --
11-02. Polyswitch (VF400,F7, F2, VF500) (For VGA, HDMI, DP)	POLYTRONICS TECHNOLOGY CORP	SPR-P110	PTC, Rated 6V, Ih=1.1A, It=1.8A, CA=1(86.8), 2, 3, 4.Tmoa=85 degree C	UL1434, EN60730-1:2016, IEC 60730-1:2013+A1	UL, TUV RH R 50099121
11-02a. Polyswitch (VF400,F7, F2, VF500) (For VGA, HDMI, DP)- Alternate	LITTELFUSE INC	0805L110ULYR	PTC, Rated 6V, Ih=1.0A, It=1.8A, CA=1(86.8), 2, 3, 4,Tmoa=85 degreeC S4, S5, S6, S7 or ST, followed by A,B,C,D,E,G,H, J,K,M,N or P, followed by H or J	UL1434, EN60730-1:2016, IEC 60730-1:2013+A1	UL, TUV RH
11-02b. Polyswitch (VF400,F7, F2, VF500) (For VGA, HDMI, DP)- Alternate	CYG WAYON CIRCUIT PROTECTION	LP-ISML110	PTC, Rated 8V, Ih=1.1A, It=2.2A, CA=1(103), 2, 3, 4 .Tmoa=85 degreeC	UL1434, EN60730-1:2016, IEC 60730-1:2013+A1	UL, TUV RH
11-03. Overcurrent Protector (U50, U54, U105) for (USB 3.2, USB_LAN)	ANPEC ELECTRONICS CORP	APL3553 followed by A, B, E, F, I or J, followed by B, C or X, followed by I, followed by -, followed by TR, followed by G	2.7-5.5Vdc; Maximum Continuous Current: 2.0 A; Protective Current: 2.9 A	UL 2367, IEC 60950-1,IEC 62368-1:2014	UL, CB by UL (DK-59231-A2-UL) for IEC 60950-1; DK-87208-M2-UL for IEC 62368-1
11-05. Overcurrent Protector (U18) for USB type C (Alternate)	REALTEK SEMICONDUCTOR CORP	RTS5444, RTS5444y (y = E to Z)	Input Voltage: 4.75 to 5.5 Vdc Output Continuous Rating: VBUS_SW_OUT T = 0.9 to 3.0A CC1/CC2 = 300mA Current Limit Rating: VBUS_SW_OUT T = 0.968 – 3.194A CC1/CC2 = 570mA Ambient: -40 to 85°C	UL 2367, IEC 62368-1:2014	--, CB by UL (DK-81786-M1-UL)

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12. Insulating tubing/ Sleeving	Interchangeable	Interchangeable	Marked VW-1; 105 degree C, 300V.	UL224	UL , --
13. Wiring, internal ES1 circuits	Interchangeable	Interchangeable	Marked VW-1; min 30V, 60 or 80 degree C.	UL758	UL , --
14. Interconnecting Cable (optional)	Interchangeable	Interchangeable	60 degree C min., 60V min., 3.05m long max., VW-1.	UL758	UL , --
14a. Interconnecting Cable (optional) - alternate	Interchangeable	Interchangeable	Type CMP, CMR, CMG, CM	UL444	-- , UL
15. Internal Plastic Part Materials	Interchangeable	Interchangeable	V-2 min or HF-2 min.	UL94, UL746C	UL , --
16a. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are mounted on V-1 class material.	--	-- , --
16b. Internal Plastic Parts Materials (optional) - alternate	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm ³) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	--	-- , --
16. Connectors and Receptacles (ES1 circuits)	Interchangeable	Metal/Plastic	Copper alloy pins housed in bodies of plastic rated V-2 min.	UL94, UL746C	UL , --

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16a. Connectors and Receptacles (ES1 circuits) - alternate	Interchangeable	Interchangeable	--	L1977	UL , --
17. Graphics card (optional)	SHENZHEN BITLAND INFORMATION TECHNOLOGY CO LTD	BD3I69	DC 12V, 5.5A max; and 3.3V, 3A max.	UL60950-1, IEC60950-1, UL62368-1, IEC62368-1	UL , CB by UL (DK-81079-UL for IEC 60950-1,DK-81083-UL for IEC 62368-1)
17. Graphics card (optional) - alternate	Interchangeable	Interchangeable	DC 12V, 5.5A max; and 3.3V, 3A max.	UL60950-1, IEC60950-1, UL62368-1, IEC62368-1	UL , CB by NCB
18. pluggable connector	Interchangeable	Interchangeable	V-1 or better	UL94, UL746C	UL , --
19. Speaker	--	--	8ohm, 1W	--	-- , --
Plastic Front Panel	KINGFA SCI & TECH CO LTD	GAR-011	HB, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E171666 & tested in appliance
Alt.	ZHE JIANG CHI MEI CHEMICAL CO LTD	PC-550K(+)	V-0, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E194560 & tested in appliance
Alt.	BAYER MATERIAL SCIENCE AG	2407 + (z)(f1)	V-2, 115°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E41613 & tested in appliance
Alt.	DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABS-PCR35/65/85	HB, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E345434& tested in appliance
Alt.	Interchangeable	Interchangeable	HB or better, min. 1.6 mm thickness.	UL94:2018 IEC 60695-11-10:2013	S, ETL, UL & other EU certification marks
PCB for motherboard	VICTORY GIANT TECHNOLOGY (HUIZHOU) CO LTD	SH, SH10	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E248779& tested in appliance

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Alt.	HANNSTAR BOARD CORP	MV-4, MV-6	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E89382& tested in appliance
Alt.	CHUAN YI COMPUTER (SHENZHEN) CO LTD	CM-4	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E162264& tested in appliance
Alt.	Interchangeable	Interchangeable	V-1 or better, min. 105 °C	UL796 :2016 IEC 60695-11-10:2013	S, ETL, UL & other EU certification marks
Adaptor 1 (Optional)	DELTA ELECTRONICS INC	ADP-65ME B	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-101777
Alt.	Lite-On Technology Corporation	PA-1650-74XX (X can be any character or blank)	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-102152
Alt.	CHICONY POWER TECHNOLOGY CO LTD	A19-065N2A	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: DK-64002-A2-UL
Alt.	Interchangeable	Interchangeable	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB & other EU certification marks
Adaptor 2 (Optional)	DELTA ELECTRONICS INC	ADP-90ME B	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-101914
Alt.	Lite-On Technology Corporation	PA-1900-74XX (X can be A-Z, 0-9, or hyphen or blank)	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-102137
Alt.	CHICONY POWER TECHNOLOGY CO LTD	A19-090P3A	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-101636
Alt.	Interchangeable	Interchangeable	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB & other EU certification marks

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Adaptor 3 (Optional)	DELTA ELECTRONICS INC	ADL135NDC3A	Input: 100- 240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. DK- 63818-UL
Alt.	Chicony Power Technology Co., Ltd.	ADL135SCC3A	Input: 100- 240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. NO101867
Alt.	DELTA ELECTRONICS INC	ADL135SDC3A	Input: 100- 240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-086470
Alt.	Lite-On Technology Corporation	ADL135SLC3A	Input: 100- 240Vac, 50- 60Hz, 2.5A; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-108256
Alt.	Lite-On Technology Corporation	ADL135NLC3A, PA- 1131-72FS	Input: 100- 240Vac, 50- 60Hz, 2.5A; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-062043
Alt.	Interchangeable	Interchangeable	Input: 100- 240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB & other EU certification marks
DC Fan	FOXCONN TECHNOLOGY CO LTD	PVB070E12HP01-08	12Vdc, max 0.95A, 20.25CFM.	UL 507& IEC/EN 60950-1	UL E231557& tested in appliance
Alt.	ASIA VITAL COMPONENTS CO LTD	BAZA0817R2UP003	12Vdc, max. 1.1A, 19.17CFM.	UL 507& IEC/EN 60950-1	UL E158191& tested in appliance
Alt.	DELTA ELECTRONICS INC	BUB0812HD-01FSG	12Vdc, max. 1.5A, 20.3CFM	UL 507& IEC/EN 60950-1	UL E132003& tested in appliance
Alt.	Interchangeable	Interchangeable	12Vdc, Max. 1.5A Min. 19.17CFM	IEC/EN 60950- 1:2005	CB, S & other EU certification marks
Optical Device Drive (Optional)	LG ELECTRONICS INC	GUAX#, GUCx#, GUEX# DUCx#, DUEX#	Class 1 laser, 5V, 1.5A	IEC/EN 60825- 1& IEC/EN/UL 60950- 1	UL E119002& tested in appliance

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Alt.	Interchangeable	Interchangeable	Class 1 laser, 5/12 V dc, 3.0/3.0 A max.	IEC/EN 60825- 1:2014& IEC/EN 60950- 1:2005	CB, S & other EU certification marks
Hard Disk (Optional)	SEAGATE TECHNOLOGY L L C	ST3	5 V/12 V dc, 1.5 A/1.5 A max.	UL 60950-1& IEC/EN 60950-1	UL E106814 & tested in appliance
Alt.	Interchangeable	Interchangeable	5 V/12 V dc, 3.0 A/3.0 A max.	IEC/EN 60950- 1:2005 IEC/EN 62368- 1:2014	CB, S & other EU certification marks
Lithium Battery for RTC	Panasonic Corporation, Panasonic Corporation Of North America	CR2032	3 V dc, Maximum abnormal charging current 10 mA	UL1642& IEC/EN 60950-1	UL MH12210 & tested in appliance
Alt.	Double Best Co LTD	CR2032	3 V dc, Maximum abnormal charging current 10 mA	UL1642& IEC/EN 60950-1	UL MH46388 & tested in appliance
Alt.	Interchangeable	Interchangeable	3 V dc, Max abnormal charging current 10 mA	IEC/EN 60950- 1:2005	CB, S & other EU certification marks
USB Power Switch (UUS2,UUS3, UUS4,UUS5)	Silergy Technology (Taiwan) Inc	SY6288E1AAC	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1- 3.9A	UL 2367& IEC/EN 60950-1	UL E491480 & tested in appliance
Alt.	UPI SEMICONDUCTOR CORP	UP7566PMA5-25	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1- 3.9A	UL 2367& IEC/EN 60950-1	UL E316940 & tested in appliance
Alt.	ANPEC ELECTRONICS CORP	APL3553IBI-TRG	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1- 3.9A	UL 2367& IEC/EN 60950-1	UL E328191 & tested in appliance
USB Power Switch (UUS6)	PERICOM SEMICONDUCTOR CORP	PI5USB2546HZHEX	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E340734 & tested in appliance

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Alt.	ANPEC ELECTRONICS CORP	APL3524QBI-TRG	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E328191 & tested in appliance
Alt.	TEXAS INSTRUMENTS INC	SN1702001RTER	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E169910 & tested in appliance
USB Power Switch (UTC1)	TEXAS INSTRUMENTS INC	TPS25820DSSR	Rated: 5V dc, holding current: 1.5A, trip current: 1.6A- 1.84A	IEC/EN 60950-1	UL E169910 & tested in appliance
Alt.	REALTEK SEMICONDUCTOR CORP	RTS5444E-GR	Rated: 5V dc, holding current: 1.5A, trip current: 1.6A- 1.85A	UL 2367& IEC/EN 60950-1	UL E506340 & tested in appliance
Metal enclosure	Interchangeable	Interchangeable	Hot dip steel plate, Min. 0.6mm	IEC/EN 60950- 1:2005	None
Metal enclosure	Interchangeable	Interchangeable	Overall 256.8mm x 336mm x 89mm, Min 0.6 mm thickness	IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1	Test with equipment
Plastic Front Panel	NINGBO LG YONGXING CHEMICAL CO LTD	HI-121 H	HB or better, min. 1.0 mm thickness.	UL 94, UL 764C	UL E203955
(Alternative)	JIANGSU TOP POLYMER ENTERPRISE LTD	5000s(+)	V-0, min. 1.5 mm thickness.	UL 94, UL 764C	UL E362750
(Alternative)	HONGFUJIN PRECISION INDUSTRY (SZ) CO LTD	C2400E	V-0, min. 1.6 mm thickness.	UL 94, UL 764C	UL 323548
(Alternative)	KINGFA SCI & TECH CO LTD	GAR-011	HB or better, min. 1.0 mm thickness.	UL 94, UL 764C	UL E171666
(Alternative)	BAYER MATERIAL SCIENCE LTD	2405+	HB or better, min. 2.7 mm thickness.	UL 94, UL 764C	UL E178485

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(Alternative)	GE PLASTICS GLOBAL PRODUCTS FOR WORLDWIDE PROCUREMENT	C6200	HB or better, min. 0.7 mm thickness.	UL 94, UL 764C	UL E161759
(Alternative)	HUIZHOU WOTE ADVANCED MATERIAL CO LTD	2100	HB or better, min. 1.5 mm thickness.	UL 94, UL 764C	UL E310240
(Alternative)	Interchangeable	Interchangeable	HB or better, min. 1.0 mm thickness.	UL94, UL746C	UL approved
PCB	CHUAN YI COMPUTER (SHENZHEN) CO LTD	CM-4	V-0, 130 °C	UL 796, UL94	UL E162264
(Alternative)	PALWONN ELECTRONICS (SHENZHEN) CO LTD	M3	V-0, 130 °C	UL 796, UL94	UL E230435
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796, UL94	UL approved
Built-in Power Supply	Lite-On Technology Corporation	PA-2181-3VA- ROHS	Input: AC100-240V, 50/60Hz, 3.0A; Output: DC+12V, 15A max., DC-12V, 0.2A max., 180W max. Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1	CB Cert. No.: JPTUV-102271, CB Cert. No.: JPTUV-102347, UL E132068, cUL E132068
(Alternative)	Acbel Polytech Inc.	PCJ010	Input: AC100-240V, 50/60Hz, 3.0A Output: DC+12V/15A; DC -12V/0.2A; Max.180W; +12V:Max.180 W; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-101485, CB Cert. No.: JPTUV-101683 UL E131875, UL E131875

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(Alternative)	SHENZHEN HUNTKEY ELECTRIC CO LTD	HK280-73PP	Input: AC100-240V, 50/60Hz, 3A Output: DC+12V/15A; -12V/0.2A, 180W; +12V:Max.180 W; -12V:Max.2.4W Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: DK-89075-UL, CB Cert. No.: DK-89081-UL, UL E181356; cUL E181356
(Alternative)	FSP GROUP INC.	FSP180-20TLA	Input: AC100-240V, 50/60Hz, 3A, class I Output: DC+12V, 15A max., DC-12V, 0.2A max.; Total Power: 180W max.; Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: DK-88801-UL, CB Cert. No.: DK-88812-UL, UL E190414, cUL E190414
(Alternative)	SHENZHEN HUNTKEY ELECTRIC CO LTD	HK360-72PP	Input: AC100-240V, 50/60Hz, 4A, Output: DC+12V, 21.5A, DC-12V, 0.2A ; Total Power: 260W max.; Class I, Altitude: up to 5000m	IEC/EN 62368-1, EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: SG-PSB-IV-04740, TUV SUD Cert. No.: B 068954 1396, UL E181356, cUL E181356
(Alternative)	Acbel Polytech Inc.	PCL015	Input: AC100-240V, 50/60Hz, 4.0A, Output: DC+12V, 21.5A, DC-12V, 0.2A ; Total Power: 260W max.; Class I, Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-125343, CB Cert. No.: JPTUV-125612, TUV Cert. No.: R 50513102, UL E131875, UL E131875
(Alternative)	Lite-On Technology Corporation	PA-2261-1	Input: AC100-240V, 50/60Hz, 4A, Output: DC+12V,	IEC/EN 60950-1, IEC/EN 62368-1, EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-125477, CB Cert. No.: JPTUV-125875,

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			21.5A, DC-12V, 0.2A ; Total Power: 260W max.; Class I, Altitude: up to 5000m		TUV Cert. No.: R 50513677, UL E132068, UL E132068
(Alternative)	FSP GROUP INC.	FSP260-21TLA	Input: AC100-240V, 50/60Hz, 4A, class I Output: DC+12V, 21.5A , DC-12V, 0.2A max.; Total Power: 260W max. Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: DK-114605-UL, CB Cert. No.: DK-114607-UL, TUV Cert. No.: R 50510109, UL E190414, UL E190414
(Alternative)	Acbel Polytech Inc.	PCJ007	Input: AC100-240V, 50/60Hz, 4.0A, class I Output: DC+12V1, 18A, DC+12V2, 18A, DC+12V3, 18A, DC-12V, 0.2A (output not exceed 2.4W); Total Power: 310W Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-092384, CB Cert. No.: JPTUV-092700, UL E131875, UL E131875
(Alternative)	Acbel Polytech Inc.	PCK014	Input: AC100-240V, 50/60Hz, 5.0A, class I Output: DC+12V1, 30A, DC+12V2, 18A, (+12V1&+12V2 combined output not exceed 380W) DC-12V, 0.2A (output not exceed 2.4W); Total Power: 380W Altitude: up to 5000m	IEC/EN 60950-1, IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert. No.: JPTUV-101675, CB Cert. No.: JPTUV-101909, UL E131875, cUL E131875

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Optical Device Drive (Optional)	Hitachi-LG Data Storage inc.,	GUE1N	Class 1 laser, DC 5V, 1.5A	IEC/EN 60825-1, Code of Federal Regulations (CFR), Title 21, Part 1040	Intertek Cert. No.: SG ITS-20219, FDA registration No.: 1830330-001
(Alternative)	Interchangeable	Interchangeable	Class 1 laser, DC 5V, 1.5A max.	IEC/EN 60825-1, Code of Federal Regulations (CFR), Title 21, Part 1040	EU Certification approved, FDA registered
Hard Disk Drive (Optional)	TOSHIBA	MQ01ACF050	DC 5 V, 1.1A	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	Cert. No.: R 50237505, UL E145163, cUL E145163
Hard Disk Drive (Optional) (Alternative)	Interchangeable	Interchangeable	DC 5 V, 1.1A max.	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	TUV, UL and CSA approved
Solid State Drive (Optional) (Alternative)	Interchangeable	Interchangeable	DC 5 V/12 V, 1.1A max.	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	U TUV, UL and CSA approved
DC Fan (For CPU)	Delta electronics, inc.	BUC1012VJ-00	DC 12V, 1A, 20.98CFM	IEC/EN 62368-1, UL 507, CSA-C22.2 No. 113	TUVR Cert. No.: R 50387001, UL E132003, cUL E132003
(Alternative)	Interchangeable	Interchangeable	DC 12V, 1A max., 20.98CFM min.	IEC/EN 62368-1, UL 507, CSA-C22.2 No. 113	TUV, UL and CSA approved
Poly Switch (F1, F2, F3, F4)	BOURNS ELECTRONICS (TAIWAN) LTD	MF-USMF110	DC 6V, holding current: 1.1A, trip current : 2.2A	EN 60730-1, UL 1434, CSA-C22.2 No. 72	TUVR Cert. No.: R 02057213, UL E174545, cUL E174545
(Alternative)	LITTELFUSE	1210L110THYR	DC 6V, holding current: 1.1A, trip current : 2.2A	EN 60730-1, UL 1434, CSA-C22.2 No. 72	TUVR Cert. No.: R 50119118, UL E183209, cUL E183209
(Alternative)	POLYTRONICS	SMD1210P110TFT	DC 6V, holding current: 1.1A, trip current : 2.2A	EN 60730-1, UL 1434, CSA-C22.2 No. 72	TUVR Cert. No.: R 50099121, UL E201431, cUL E201431
Poly Switch for USB (U23, U30, U33, U57, U59, U71, U74)	UPI SEMICONDUCTOR CORP	uP7566PMA5-25	DC 2.7 to 5.5V, holding current: Typical 3.3A trip current: 5.0A	IEC/EN 62368-1, UL Subject 2367	CB Cert. No.: R JPTUV-105535-A1/M1, UL E316940

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(Alternative)	Green Solution Technology CO, LTD	GS7632S5MN-R	DC 2.0 to 5.5V, holding current: Typical 4.0A trip current: 5.0A:	IEC/EN 62368-1, UL Subject 2367	CB Cert. No.: R JPTUV-105620, UL E360303
(Alternative)	TEXAS INSTRUMENTS INCORPORATED	TPS2001DDBVR	DC 2.5 to 5.5V, holding current:2.0A, trip current: 3.6A	IEC/EN 62368-1, UL Subject 2367	CB Cert. No.:US-34988-UL, UL E353665
Lithium Battery for RTC	PANASONIC	CR-2032L/BE	DC 3V, max. abnormal charging current 10 mA	UL 1642	UL MH12210
(Alternative)	DOUBLE BEST CO LTD	CR2032, BR2032	DC 5V, max. abnormal charging current 10 mA	UL 1642	UL MH46388
Graphics Card	BITLAND	BD3K65	Class III (50W)	IEC/EN 62368-1, UL 62368-1	UL CB Cert. No.:DK-106544- UL, UL E307995
(alternative)	Interchangeable	Interchangeable	Class III (50W max.)	IEC/EN 60950-1, IEC/EN 62368-1, UL 60950-1, UL 62368-1	TUV,UL and CSA approved
Plastic Front Panel	KINGFA SCI & TECH CO LTD	GAR-011	HB, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E171666 & tested in appliance
Alt.	ZHE JIANG CHI MEI CHEMICAL CO LTD	PC-550K(+)	V-0, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E194560 & tested in appliance
Alt.	BAYER MATERIAL SCIENCE AG	2407 + (z)(f1)	V-2, 115°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E41613 & tested in appliance
Alt.	DONGGUAN HINGLONG PLASTIC TECHNOLOGY CO LTD	HL-ABS-PCR35/65/85	HB, 60°C, min. 1.6mm thickness.	UL94 & IEC/EN 60950-1	UL E345434& tested in appliance
Alt.	Interchangeable	Interchangeable	HB or better, min. 1.6 mm thickness.	UL94:2018 IEC 60695-11-10:2013	S, ETL, UL & other EU certification marks

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PCB for motherboard	VICTORY GIANT TECHNOLOGY (HUIZHOU) CO LTD	SH, SH10	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E248779& tested in appliance
Alt.	HANNSTAR BOARD CORP	MV-4, MV-6	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E89382& tested in appliance
Alt.	CHUAN YI COMPUTER (SHENZHEN) CO LTD	CM-4	V-0, min. 1.5mm, 130°C	UL796 & IEC/EN 60950-1	UL E162264& tested in appliance
Alt.	Interchangeable	Interchangeable	V-1 or better, min. 105 °C	UL796 :2016 IEC 60695-11-10:2013	S, ETL, UL & other EU certification marks
Adaptor 1 (Optional)	DELTA ELECTRONICS INC	ADP-65ME B	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-101777
Alt.	Lite-On Technology Corporation	PA-1650-74XX (X can be any character or blank)	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-102152
Alt.	CHICONY POWER TECHNOLOGY CO LTD	A19-065N2A	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: DK-64002-A2-UL
Alt.	Interchangeable	Interchangeable	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 3.25A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB, UL& other EU certification marks
Adaptor 2 (Optional)	DELTA ELECTRONICS INC	ADP-90ME B	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-101914
Alt.	Lite-On Technology Corporation	PA-1900-74XX (X can be A-Z,0-9, or hyphen or blank)	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No.: JPTUV-102137
Alt.	CHICONY POWER TECHNOLOGY CO LTD	A19-090P3A	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-101636

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Alt.	Interchangeable	Interchangeable	Input: 100-240V~, 50-60Hz, 1.5A; Output: 20Vdc, 4.5A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB, UL& other EU certification marks
Adaptor 3 (Optional)	DELTA ELECTRONICS INC	ADL135NDC3A	Input: 100-240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. DK-63818-UL
Alt.	Lite-On Technology Corporation	ADL135NLC3A	Input: 100-240Vac, 50-60Hz, 2.5A; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	CB Cert. No. JPTUV-062043
Alt.	Interchangeable	Interchangeable	Input: 100-240V~, 1.5A, 50-60Hz; Output: 20Vdc, 6.75A	IEC/EN 60950-1 IEC/EN 62368-1	S, CB, UL& other EU certification marks
DC Fan	FOXCONN TECHNOLOGY CO LTD	PVB070E12HP01-08	12Vdc, max 0.95A, 20.25CFM.	UL 507& IEC/EN 60950-1	UL E231557& tested in appliance
Alt.	ASIA VITAL COMPONENTS CO LTD	BAZA0817R2UP003	12Vdc, max. 1.1A, 19.17CFM.	UL 507& IEC/EN 60950-1	UL E158191& tested in appliance
Alt.	DELTA ELECTRONICS INC	BUB0812HD-01FSG	12Vdc, max. 1.5A, 20.3CFM	UL 507& IEC/EN 60950-1	UL E132003& tested in appliance
Alt.	Interchangeable	Interchangeable	12Vdc, Max.1.5A Min. 19.17CFM	IEC/EN 60950-1:2005	CB, S & other EU certification marks
Optical Device Drive (Optional)	LG ELECTRONICS INC	GUAX#, GUCx#, GUEX# DUCx#, DUEX#	Class 1 laser, 5V, 1.5A	IEC/EN 60825-1& IEC/EN/UL 60950-1	UL E119002& tested in appliance
Alt.	Interchangeable	Interchangeable	Class 1 laser, 5/12 V dc, 3.0/3.0 A max.	IEC/EN 60825-1:2014& IEC/EN 60950-1:2005	CB, S & other EU certification marks
Hard Disk (Optional)	SEAGATE TECHNOLOGY L L C	ST3	5 V/12 V dc, 1.5 A/1.5 A max.	UL 60950-1& IEC/EN 60950-1	UL E106814 & tested in appliance

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Alt.	Interchangeable	Interchangeable	5 V/12 V dc, 3.0 A/3.0 A max.	IEC/EN 60950-1:2005 IEC/EN 62368-1:2014	CB, S & other EU certification marks
Lithium Battery for RTC	Panasonic Corporation, Panasonic Corporation Of North America	CR2032	3 V dc, Maximum abnormal charging current 10 mA	UL1642& IEC/EN 60950-1	UL MH12210 & tested in appliance
Alt.	Double Best Co LTD	CR2032	3 V dc, Maximum abnormal charging current 10 mA	UL1642& IEC/EN 60950-1	UL MH46388 & tested in appliance
Alt.	Interchangeable	Interchangeable	3 V dc, Max abnormal charging current 10 mA	IEC/EN 60950-1:2005	CB,S & other EU certification marks
USB Power Switch (UUS2,UUS3, UUS4,UUS5)	Silergy Technology (Taiwan) Inc	SY6288E1AAC	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1-3.9A	UL 2367& IEC/EN 60950-1	UL E491480 & tested in appliance
Alt.	UPI SEMICONDUCTOR CORP	UP7566PMA5-25	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1-3.9A	UL 2367& IEC/EN 60950-1	UL E316940 & tested in appliance
Alt.	ANPEC ELECTRONICS CORP	APL3553IBI-TRG	Rated: 5Vdc, holding current: 0.9-2.6A, trip current: 3.1-3.9A	UL 2367& IEC/EN 60950-1	UL E328191 & tested in appliance
USB Power Switch (UUS6)	PERICOM SEMICONDUCTOR CORP	PI5USB2546HZHEX	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E340734 & tested in appliance
Alt.	ANPEC ELECTRONICS CORP	APL3524QBI-TRG	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E328191 & tested in appliance
Alt.	TEXAS INSTRUMENTS INC	SN1702001RTER	Rated: 5V dc, holding current: 2.1A, trip current: 2.45A	UL 2367& IEC/EN 60950-1	UL E169910 & tested in appliance
USB Power Switch (UTC1)	TEXAS INSTRUMENTS INC	TPS25820DSSR	Rated: 5V dc, holding current: 1.5A, trip current: 1.6A-1.84A	IEC/EN 60950-1	UL E169910& tested in appliance

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Alt.	REALTEK SEMICONDUCTOR CORP	RTS5444E-GR	Rated: 5V dc, holding current: 1.5A, trip current: 1.6A- 1.85A	UL 2367& IEC/EN 60950-1	UL E506340 & tested in appliance
Metal enclosure	Interchangeable	Interchangeable	Hot dip steel plate, Min. 0.6mm	IEC/EN 60950- 1:2005	None
10. Switching Power Supply	SHENZHEN HUNTKEY ELECTRIC CO LTD	HK360-72PP S1	Input: AC100-240V, 50/60Hz, 4A, Output: DC+12V, 21.5A, Total Power: 258W max.; Class I, Altitude: up to 5000m; Tma 55 degree C.	UL62368-1, IEC60950-1, IEC62368-1	UL , CB By TUV (Certificate SG PSB-IV- 04740 IEC 62368- 1:2014, SG PSB-IV- 04736 IEC 62368- 1:2018, SG PSB- OF- 06259 for IEC 60950- 1:2005)
10a. Switching Power Supply (Alternate)	Lite-On Technology Corporation	PA-1261-01YX (Y= A-Z, Blank or -; X= 0-9, A-Z, Blank or -)	Input: AC100-240V, 50/60Hz, 4A, Output: DC+12V, 21.5A, Total Power: 258W max.; Class I, Altitude: up to 5000m; Tma 55 degree C.	UL62368-1, IEC62368-1	UL , CB By TUV (Certificate JPTUV- 125876-M2 for IEC 62368- 1:2018)
10b. Switching Power Supply (Alternate)	FSP GROUP INC.	FSP260-11TLA	Input: AC100-240V, 50/60Hz, 4A, class I	UL62368-1, IEC62368-1	UL , CB By UL (Certificate DK-138078- M1-UL for IEC 62368-

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			Output: DC+12V, 21.5A; Total Power: 258W max.		1:2018)
10c. Switching Power Supply (Alternate)	Acbel Polytech Inc.	PCL015	Input: AC100-240V, 50/60Hz, 4.0A, Output: DC+12V, 21.5A, DC-12V, 0.2A ; Total Power: 260W max.; Class I, Altitude: up to 5000m; Tma 55 degree C.	UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013	UL , CB by TUV (JPTUV-125612 for IEC 62368-1); CB by TUV (JPTUV-125343 for IEC 60950-1)
10d. Switching Power Supply (Alternate)	Lite-On Technology Corporation	PA-1181-03YX (where Y=A-Z, Blank or "-"; X= 0-9, A-Z, Blank or "-")	Input: AC100-240V, 50/60Hz, 3A, Output: DC+12V, 15A, Maximum output power is 180W, Altitude: up to 5000m; Tma 55 degree C.	UL62368-1, IEC62368-1	UL , CB By TUV (Certificate JPTUV-138390-M1 for IEC 62368-1:2018,)
10e. Switching Power Supply (Alternate)	Acbel Polytech Inc.	PCJ010	Input: AC100-240V, 50/60Hz, 3.0A,	UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-	UL , CB by TUV (JPTUV-101683 for IEC 62368-

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			cl as s l O ut pu t: +12V/15A,- 12.0V/0.2AOU TP UT WATT: 180W+12V OUTPUT NOT EXCEED 180W- 12.0V OUTPUT NOT EXCEED 2.4W; Altitude: up to 5000m; Tma 55 degree C.	1:2005 (Second Edition) + Am 1:2009 + Am 2:2013	1:2014); CB by TUV (JPTUV- 101485 for IEC 60950-1)
10f. Switching Power Supply (Alternate)	SHENZHEN HUNTKEY ELECTRIC CO LTD	HK280-73PP xy ("x" =A to Z or blank, "y" = 0 to 9 or blank, for marketing purpose only)	AC INPUT: 100-240Vac, 50/60Hz, 3A DC OUTPUT : +12V, 15A; - 12V,0.2A OUTPUT WATT:180W Max. +12V OUTPUT NOT EXCEED 180W; -12V OUTPUT NOT EXCEED 2.4W; Class I, Altitude: up to	UL62368-1, IEC60950-1, IEC62368-1	UL , CB By UL (Certificate DK- 89081-UL IEC 62368- 1:2014, DK- 89075-UL for IEC 60950- 1:2005)

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			5000m; Tma 55 degree C.		
10g. Switching Power Supply (Alternate)	FSP GROUP INC.	FSP180-10TLA	Input: AC100-240V, 50/60Hz, 3A, class I Output: DC+12V, 15A; Total Power: 180W max. Altitude: up to 5000m; Tma 55 degree C.	UL62368-1, IEC62368-1	UL , CB By UL (Certificate DK-138083- M1-UL for IEC 62368- 1:2018)
10h. Switching Power Supply (Alternate)	Acbel Polytech Inc.	PCJ007	I/P: 100- 240V~, 50/60Hz, 4.0A O/P: +12V1/18A, +12V2/18A, +12V3/1 8A, - 12.0V/0. 2A, +12V1&+12V2 &+1 2V3 combined output not exceed 310W, -12.0V	UL62368-1, IEC62368-1	UL , CB By TUV (Certificate JPTUV- 144357 for IEC 62368- 1:2018)
11. Solid State Drive/ Hard Disk (Optional)	SAMSUNG ELECTRONICS CO LTD	MZ-W *****	DC +12 V ; 1.85 A or 2.5 A	UL60950-1, IEC/EN 60950- 1, IEC62368-1	UL , CB by TUV RH (JPTUV1091 26-M2)
12. Optical Disk Drive (Optional)	Hitachi-LG Data Storage, Inc.	GUA**, GUC**, GUE**, DUE**, DUC** (Where first “**” can be any	DC 5 V, 1.5 A, Class III, CLASS 1 LASER PRODUCT	UL60950-1, IEC62368-1, IEC60825-1	UL , CB by Intertek (SG ITS- 20219)

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		number 0-9 and second “*” can be any alphanumeric character, denoting non safety related differences)			
13. CPU Fan (one provided) (Optional)	Foxconn Technology Co., Ltd.	PVB120G12T- P02	12Vdc, 0.68A, Max 1.2A. Min.23.49	UL507, EN62368-1	UL , CB by NCB
13a. CPU Fan (one provided) (Optional) (Alternate)	DELTA ELECTRONICS INC	BUB1012HJ-01KR9	12V, 0.9A, Max 1.0A. Min 22.04CFM	UL507, IEC/EN62368-1	UL , CB by TUV (R 50387001)
13b. CPU Fan (one provided) (Optional) (Alternate)	Everflow Precision Electronic (dong Guan) Co Ltd	RB8020SUAF97 CCH	12V, 0.65A, Max 0.75A. Min 22.23CFM	UL507, EN62368-1	UL , CB by TUV (R 50091668)
13c. CPU Fan (one provided) (Optional) (Alternate)	ASIA VITAL COMPONENTS CO LTD	BAZD0925R2UP 014	12V, 0.64A, Max 0.90A. Min 24.67CFM	UL507, IEC/EN62368-1	UL , CB by TUV (No. B 025730 0973 Rev. 10)
13d. CPU Fan (one provided) (Optional) (Alternate)	Interchangeable	Interchangeable	12Vdc, Max. 1.0A, Min 22.04 CFM.	UL507, IEC/EN62368-1	UL , CB by NCB
14. Heatsink for CPU	-	-	Aluminum. See Enclosure, 4-03 for details.	-	- , -
15. RTC Battery	PANASONIC	CR2032	DC 3Vdc, Max. Abnormal charging current 10mA.	UL1642	UL , -
15a. RTC Battery (Alternate)	DOUBLE BEST CO LTD	CR2032	DC 3Vdc, Max. Abnormal charging current 10mA.	UL1642	UL , -

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15b. RTC Battery (Alternate)	Interchangeable	CR2032	DC 3Vdc, Max. Abnormal charging current 10mA.	UL1642	UL , -
16. Protector IC for USB (LU2,U103,U153, U154)	NIKO SEMICONDUCTOR CO LTD	GS7612S5KH-R	DC 2.0 to 5.5V, Output current limit: Typ 2.6A, Max 3.5A	UL 2367, IEC 62368-1	UL , CB by TUV (JPTUV- 102520)
16a. Protector IC for USB (LU2,U103,U153, U154) (Alternate)	UPI SEMICONDUCTOR CORP	UP7549UMA5-25	Input Voltage Range: 2.7 Vdc to 5.5 Vdc; Output current limit: Typ 3.3A, Max 5.0A	UL 2367, IEC 62368-1	UL , CB by TUV (JPTUV- 105535-A1)
16b. Protector IC for USB (LU2,U103,U153, U154) (Alternate)	ANPEC ELECTRONICS CORPORATION	APL3553BBI- TRG	Input Voltage: VIN = 2.7 – 5.5 Vdc Output Continuous Rating: VOUT = 2.0 A Current Limit Rating: VOUT = 2.9 A Ambient: -40 to 85°C	UL 2367, IEC 62368-1	
16c. Protector IC for USB (LU2,U103,U153, U154) (Alternate)	JOULWATT TECHNOLOGY CO LIMITED	G517F2T11U	Input: 2.7-5.5Vdc, Operational Current Rating per output : 2.1A; Overcurrent Protection Current Rating per output 2.2-3.0A; Maximum ambient temperature: -30 to 70 degree C	UL 2367, IEC 62368-1	

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16d. Protector IC for USB (LU2,U103,U153,U154) (Alternate)	DIODES INC	AP22811BW5-7	Input Voltage: 2.7 to 5.5 Vdc Output Continuous Rating: 2.0 A Output Current Limit: 3.2A Operating Temperature: - 40C to 85C	UL 2367, IEC 62368-1	
16-01. Protector IC for USB (U500)	REALTEK SEMICONDUCTOR CORP	RTS5444-GRT	Input Voltage: 4.75 to 5.5 Vdc Output Continuous Rating: VBUS_SW_OUT = 0.9 to 3.0A CC1/C2 = 300mA Current Limit Rating: VBUS_SW_OUT = 0.968 – 3.194A CC1/CC2 = 570mA	UL 2367, IEC 62368-1	
16-01a. Protector IC for USB (U500) (Alternate)	DIODES INC	AP25810LDFZ20 -13	Input Voltage: IN1 to OUT: 4.5 to 6.5Vdc IN2 to CC1/CC2: 4.5 to 5.5Vdc; Output Current Limit: IN1 to OUT: 1.9 to 3.8A IN2 to CC1/CC2: 0.52 to 0.8A	UL 2367, IEC 62368-1	UL , CB by UL (US- 38694-M1-UL)

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16-01b. Protector IC for USB (U500) (Alternate)	TEXAS INSTRUMENTS INCORPORATED	TPS25810RVCR	Input Voltage: IN1: 4.5 - 6.5 Vdc IN2: 4.5 - 6.5 Vdc; Output Continuous Rating: OUT: 1.5 - 3.0 A CC1: 250 mA CC2: 250 mA Output Current Limit: OUT: 1.82 - 3.64 A CC1: 410 mA CC2: 410 mA	UL 2367, IEC 62368-1	UL , CB by UL (US- 34159-M1-UL)
16-02. Polyswitch for HDMI, VGA (VF400,VF500, F 7)	POLYTRONICS TECHNOLOGY CORP	SPR-P110	6Vdc, Ih=1.1A, It=1.8A, CA=1 (86.8), 2, 3, 4. Tmoa=85 degree C.	UL1434, IEC 60730-1	UL , CB by TUV (Certificate No. R 50099121)
16-02a. Polyswitch for HDMI, VGA (VF400,VF500,F 7) (Alternate)	LITTELFUSE INC	0805L110ULYR	6Vdc, Ih=1.1A, It=1.8A, CA=1 (86.8), 2, 3, 4. Tma=85 degree C.	UL1434, IEC/EN 60738-1	UL , CB by TUV (Certificate No. R 50119118)
17. Foot pad	Interchangeable	Interchangeable	Min V-1	UL94, UL746C	UL , -
18. Flexible Printed Wiring (Optional)	Interchangeable	Interchangeable	V-2 or VTM-2 minimum when no components mounted on	UL 94, UL 746C	UL , --

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			surface.		
18a. Flexible Printed Wiring (Optional) (Alternate)	Interchangeable	Interchangeable	V-2 or VTM-2 minimum when no components mounted on surface.	UL 94, UL 746E	UL , --
18b. Flexible Printed Wiring (Optional) (Alternate)	Interchangeable	Interchangeable	Rated V-2 or VTM-2 minimum, when no components mounted on surface; If components mounted on surface, it should be V-1 or VTM-1.	UL 796, UL 796F	UL , --
19. Graphics Card (Optional)	SHENZHEN BITLAND INFORMATION TECHNOLOGY CO., LTD	BD3N75, BD3N73	Supplied by ES1	UL62368-1, IEC62368-1	UL , CB by UL (DK- 149851-UL)
19a. Graphics Card (Optional) (Alternate)	Micro-Star International CO., LTD.	V503	DC 3.3V; 5V (Optional); Class III	UL62368-1, IEC62368-1	UL , CB by TUV (JPTUV- 157097)
02. AC Adapter (Optional)	Interchangeable	Interchangeable	O/P: DC 20 V, 3.25A; Tma 35 degree C or better. Altitude: 3048m min.	IEC62368-1, UL62368-1	UL , CB by NCB
02-01. AC Adapter (Optional) (Alternate)	Delta Electronics Inc	ADP-65ME B	AC Input: 100-240V~, 1.5A, 50-60Hz DC Output: 20Vdc, 3.25A (Class I, 40 degree C, 5,000 m	IEC 62368-1:2014 EN 62368-1:2014+A11:2017 UL 62368-1, 2nd Edition, 2014-12-01	UL , CB by TUV Rheinland (JPTUV-101691, JPTUV-101777)

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02a. AC Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P: DC 20 V, 4.5A; Tma 35 degree C or better. Altitude: 3048m min.	IEC62368-1, UL62368-1	UL , CB by NCB
02a-01. AC Adapter (Optional) (Alternate)	Delta Electronics, Inc.	ADLX90NDC3A	Input: 100-240V~, 1.5A, 50-60Hz Output: 20 Vdc, 4.5A (Class I, 40 degree C, up to 5,000 m)	IEC 62368-1:2014 (Second Edition) EN 62368-1:2014/A11:2017 UL 62368-1, 2nd Edition, 2014-10-14	UL , CB by UL Demko (DK-95532-UL)
02b. AC Adapter (Optional)	Interchangeable	Interchangeable	O/P: DC 20 V, 6.75A; Tma 35 degree C or better. Altitude: 3048m min.	IEC62368-1, UL62368-1	UL , CB by NCB
02b-01. AC Adapter (Optional) (Alternate)	DELTA ELECTRONICS INC	ADL135NDC3A	Input: 100-240V~, 1.5A, 50-60Hz Output: 20Vdc, 6.75A; Tma 40 degree C or better. Altitude: 5000 m.	IEC62368-1, UL62368-1	UL , CB by UL Demko (DK-153980- UL, DK-153983-UL, DK-153983- UL)
02c. AC Adapter (Optional)	Interchangeable	Interchangeable	O/P: DC 20 V, 11.5A; Tma 35 degree C or better. Altitude: 3048m min.	IEC62368-1, UL62368-1	UL , CB by NCB
02c-01. AC Adapter (Optional) (Alternate)	LITE-ON TECHNOLOGY CORP	ADL230NLC3*(The * can be any character or blank)	I/P: 100-240V~, 50-60 Hz, 3.5A O/P: 20Vdc, 11.5A. Tma 40 degree C or better. Altitude:	IEC62368-1: 2014, UL62368-1	UL , CB by UL Demko (DK-65243- UL)

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			5000 m		
Metal enclosure	Interchangeable	Interchangeable	Overall 299.7mm x 336mm x 89mm, Min 0.6 mm thickness	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	Test with equipment
Plastic Front Panel	GUO HENG(DONGGUAN) PLASTIC TECHNOLOGY CO LTD	YOUHER13(**)(H)	HB, min. 1.5 mm thickness.	UL 94, UL 746C	UL E471190
(Alternative)	SABIC JAPAN L L C	925A(GG), 945A(GG), 955A(GG)	V-2 or better, min. 1.5 mm thickness.	UL 94, UL 746C	UL E207780
(Alternative)	PINGDINGSHAN SHENMA ENGINEERING PLASTICS CO LTD	EPR27, EPR2701, EPR2702, EPR27N, BL2720M(a)	V-2, min. 1.5 mm thickness.	UL 94, UL 746C	UL E231964
(Alternative)	KINGFA SCI & TECH CO LTD GAO TANG INDUSTRY ZONE, KEMULANG	GAR-011(ww)	HB, min. 1.6 mm thickness.	UL 94, UL 746C	UL E171666
(Alternative)	Mitsubishi Chemical Polymer Nantong Co Ltd	VH(ww)(f1), VH(f1), VHM(f1), VHS(f1)	HB, min. 1.5 mm thickness.	UL 94, UL 746C	UL E256044
PCB	Huizhou China Eagle Electronic Technology Co Ltd	CA-F121	V-0, 130 °C	UL 796, UL94, CSA-C22.2 No. 0.17	UL E198681
(Alternative)	HANNSTAR BOARD CORP	MV-6	V-0, 130 °C	UL 796, UL94, CSA-C22.2 No. 0.17	UL E89382
(Alternative)	DELTON TECHNOLOGY (GUANGZHOU) INC	ML-4A	V-0, 130 °C	UL 796, UL94, CSA-C22.2 No. 0.17	UL E237771
(Alternative)	AOSHIKANG TECHNOLOGY CO LTD	H-3	V-0, 130 °C	UL 796, UL94, CSA-C22.2 No. 0.17	UL E239218
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796, UL94, CSA-C22.2 No. 0.17	UL and CSA certified

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Built-in Power Supply	Shenzhen Huntkey Electric Co., Ltd.	PSLX200SGWA-Hx, (x=0 to 9, A to Z, or blank, for marketing purpose only) (Lenovo model)	Input: 100-240V~, 4A, 50/60Hz; Output: +12Vdc, 16.67A, 200W MAX, Altitude: up to 5000m	IEC 62368-1: 2018	CB Cert. No.: DK-156354-UL
(Alternative)	Acbel Polytech Inc.	PSLX200SGWA-A	Input : AC 100-240V; 50/60Hz; 4.0A; Class I Output: DC +12V/16.67A; +12V OUTPUT NOT EXCEED 200W; RATED OUTPUT TOTAL WATT: 200W, Altitude: up to 5000m	IEC 62368-1:2018	CB Cert. No.: JPTUV-163055
(Alternative)	FSP Group Inc.	PSLX200SGWA-F	Input : AC 100-240V; 50/60Hz; 4A; Class I Output: DC +12V; 16.67A; 200W, Altitude: up to 5000m	IEC 62368-1: 2018	CB Cert. No.: JPTUV-164536
(Alternative)	Shenzhen Huntkey Electric Co., Ltd.	PSLX260SGWA-Hx, (x=0 to 9, A to Z, or blank, for marketing purpose only) (Lenovo model)	INPUT: 100-240V~, 50/60Hz, 4A OUTPUT: +12V/21.67A, 260W Altitude: up to 5000m	IEC 62368-1: 2018, EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020	CB Cert. No.: DK-155985-UL
(Alternative)	Acbel Polytech Inc.	PSLX260SGWA-A	Input : AC 100-240V; 50/60Hz; 4.0A; Class I Output: DC +12V/21.67A; +12V OUTPUT NOT EXCEED 260W; RATED OUTPUT TOTAL WATT: 260W, Altitude: up to 5000m	IEC 62368-1:2018,	CB Cert. No.: JPTUV-163051
(Alternative)	Lite-On Technology Corporation	PSLX260SGWA-L	Input : AC 100-240V; 50/60Hz; 4A; Class I Output: DC +12V1; 21.67A; 260W MAX, Altitude: up to 5000m	IEC 62368-1:2018, EN IEC 62368-1:2020+A11:2020, BS EN IEC 62368-1:2020+A11:2020	CB Cert. No.: JPTUV-164654

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(Alternative)	SHENZHEN HUNTKEY ELECTRIC CO LTD	PSLX310SPWA-Hx, (x=0 to 9, A to Z, or blank, for marketing purpose only) (Lenovo model)	AC-INPUT: 100-240V~, 4A, 50/60Hz DC-OUTPUT: +12Vdc 25.84A MAX. OUTPUT POWER: 310W. Altitude: up to 5000m	IEC 62368-1:2018	CB Cert. No.: DK-158393-UL
(Alternative)	Lite-On Technology Corporation	PSLX310SPWA-L	Input : AC 100-240V; 4A; 50/60Hz; Class I Output: DC +12V1; 25.84A; 310W MAX. Altitude: up to 5000m	IEC 62368-1:2018	CB Cert. No: JPTUV-165909
Optical Device Drive (Optional)	Hitachi-LG Data Storage inc.	CH20N	Class 1 laser, DC 5/12 V, 1.5/1.5 A.	IEC/EN 60825-1, Code of Federal Regulations (CFR), Title 21, Part 1040	Intertek S Certificate:9 11330, FDA Registration No.:1830330 -001
(Alternative)	Interchangeable	Interchangeable	Class 1 laser, DC 5/12 V, 1.5A/1.5A max.	IEC/EN 60825-1	UL, EU Certification approved
Hard Disk Drive (Optional)	TOSHIBA	DT02ACAyyyzz (where "yyy" may be any number 001-200, "zz" may be any alphanumeric character or blank)	12 Vdc, 350 mA; 5 Vdc, 610 mA (Optional)	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	CB Cert.No.: JP-25188-M3-UL, UL E145163
Hard Disk Drive (Optional) (Alternative)	Interchangeable	Interchangeable	DC 5 V/12V, 4610 mA max.	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	TUV, UL and CSA approved
Solid State Drive (Optional)	Western Digital Technologies Inc.	SDyyyxy-xxxxxyyy, Wyyxxxxxyyyxy, Hyyxyxxxxxyyyxx, Syxyyyxz,Tyyxyx, UCxyyyxy,HHxyyyxy,GRxxxxyx, Wyyxyxxxxxyyx (x,y = 0-9, A-Z or blank)	DC 12V, 1.85A or 2.5A	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	Certif.No. US-TUVR-011943, UL E319334 , cUL E319334
Solid State Drive (Optional) (Alternative)	Interchangeable	Interchangeable	DC 12V, 2.5A max	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	TUV, UL and CSA approved

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DC Fan (For CPU)	ASIA VITAL COMPONENT S CO LTD	BAZD0925R2UP012	DC 12V, 0.9A, 26.34CFM	EN 62368-1, UL 507, CSA-C22.2 No. 113	TUV SUD Cert. No.: B 025730 0895 Rev.11, UL E158191, cUL E158191
DC Fan (For CPU)	DELTA ELECTRONICS INC	BUC1012VJ-00FY4	DC 12V, 1A Max, 22.87 CFM	EN 62368-1, UL 507, CSA-C22.2 No. 113	TUV Cert. No.: R 50415728, UL E132003, cUL E132003
DC Fan (For CPU)	Shenzhen Dongweifeng Electronic Technology Co., Ltd.	EFH-08E12W-KP01	DC 12V, 0.7A Max, 23.42 CFM	EN 62368-1, UL 507, CSA- C22.2 No. 113	TUVR Cert. No.: R 50564769 0001, UL E305197, cUL E305197
DC Fan (For CPU)	Everflow Precision Electronic (dong Guan) Co Ltd	RB8020SU AF97CbH	DC 12V, 1A Max, 26.94 CFM Max	EN 62368-1, UL 507, CSA-C22.2 No. 113	TUVR Cert. No.: R 50091668 012, UL E236658, cUL E236658
(Alternative)	Interchangeable	Interchangeable	DC 12V, 1.0A max. 26.94CFM min.	IEC/EN 62368- 1, UL 507, CSA-C22.2 No. 113	TUV, UL and CSA approved
Lithium Battery for RTC	PANASONIC CORPORATIO N OF NORTH AMERICA	CR-2032*	DC 3V, max. abnormal charging current 10 mA	UL 1642	UL MH12210
(Alternative)	DOUBLE BEST CO LTD	BR2032	DC 3V, max. abnormal charging current 10 mA	UL 1642	UL MH46388
USB Power Switch (U3301,U3904 ,U5602,U5702 ,U5705)	Joulwatt Technology Co., Ltd.	JW7115S- 2SOTA#TRPBF, JW7115SA- 2SOTA#TRPBF	DC 2.7 to 5.5V, Maximum output load: 2.0A,	IEC 62368-1 UL 62368-1 CSA C22.2 No. 62368-1	CB Cert. No.: DK-133580- UL UL E497605, cUL E497605

Certificado de Conformidade

Certificate of Conformity

Certificado / Certificate: UL-BR 25.0614

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(Alternative)	DIODES INC	AP22811AM8-13, AP22811AW5-7, AP22811BM8-13, AP22811BW5-7,	DC 2.7 to 5.5V, Output Continuous: 2.0A Output Current Limit: 3.2A	IEC 62368-1 UL 62368-1 CSA C22.2 No. 62368-1	CB Cert. No.: US-40470- UL UL E322375, cUL E322375
(Alternative)	Texas Instruments Incorporated	TPS2001EDBVR	DC 2.7 to 5.5V, Output Continuous: 2.0A Output Current Limit: 2.8A	IEC 62368-1 UL 2367	CB Cert. No.: US-2558- MET UL E115731, cUL E115731
USB Power Switch (U3201,U3402 ,U3701,U3702)	Joulwatt Technology Co., Ltd.	JW7115SSOTA#TR PBF, JW7115SASOTA#T RPBF	DC 2.7 to 5.5V, Maximum output load: 3.0A,	IEC 62368-1 UL 62368-1 CSA C22.2 No. 62368-1	CB Cert. No.: DK-133580- UL UL E497605, cUL E497605
(Alternative)	Global Mixed- mode Technology Inc.	G*509**X1X2X3X4X 5 (* = Nil or one of alphabet from A to Z.; ** = H,L,S,N; X1=02, 05,10,1S,20,2S,25,3 0,3S,3A; X2=D,N,R,L; X3=T1,T7,TB,TO,TP , TR,P8; X4=1,2,3; X5=U,D,G,C)	DC 2.7 to 5.5V, Maximum output load: 3.0A,	IEC 62368- 1:2018 ANSI/UL 2367	CB Cert. No.: JPTUV- 126218 UL E232223
(Alternative)	DIODES INC	AP22814AM8-13, AP22814ASN-7, AP22814AW5-7, AP22814BM8-13, AP22814BSN-7, AP22814BW5-7	DC 2.7 to 5.5V, Output Continuous: 3.0A Output Current Limit: 3.8A	IEC 62368-1 UL 62368-1 CSA C22.2 No. 62368-1	CB Cert. No.: US-40470- UL UL E322375, cUL E322375
USB Power Switch (U7201)	DIODES INC	AP25810LDFZ20	DC 4.5 to 6.5V Output Continuous: 1.58 to 3.16A Output Current Limit: 1.82 to 3.64A	IEC 62368- 1:2018 ANSI/UL 2367	CB Cert. No.: US-38694- UL, UL E322375

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(Alternative)	Texas Instruments Incorporated	TPS25810RVCR	DC 4.5 to 6.5V Output Continuous: 1.5 to 3.0A Output Current Limit: 1.82 to 3.64A	UL 2367	UL E169910
Graphics card (for 310W power supply)	Micro-Star International CO., LTD.	V514	DC 3.3V, DC12V (optional); Class III, 70W	IEC/EN 62368-1, EN IEC 62368-1:2020+A11, UL 62368-1	CB Cert. No.:JPTUV-167077, R 50654429 0001, UL E203413
(Alternative)	Interchangeable	Interchangeable	DC 3.3V, DC12V (optional); Class III, Max 70W	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	TUV, UL and CSA approved
Graphics card (for 260W power supply)	Micro-Star International CO., LTD.	V503	DC 3.3V, DC5V (optional); Class III, 50W	IEC/EN 62368-1	CB Cert. No.: JPTUV-157097
(Alternative)	BITLAND	BD3N75	DC 3.3V, DC5V (optional); Class III, 50W	IEC/EN 62368-1	CB Cert. No.: DK-149851-UL
(Alternative)	Interchangeable	Interchangeable	DC 3.3V, DC12V (optional); Class III, Max 50W	IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1	TUV, UL and CSA approved