

CERTIFICADO DE CONFORMIDADE

CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

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Certificado de conformidade válido somente acompanhado das páginas de 1 até 45
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Solicitante / Applicant **LENOVO TECNOLOGIA (BRASIL) LTDA**
(100592254) Estrada Municipal Jose Costa de Mesquita, 200
Módulos 5 a 10, Chácara Alvorada, Indaiatuba - SP
CEP 13337-200, Brasil

Fabricante / Manufacture **LENOVO TECNOLOGIA (BRASIL) LTDA**
(100592-254) Estrada Municipal Jose Costa de Mesquita, 200
Módulos 5 a 10, Chácara Alvorada, Indaiatuba - SP
CEP 13337-200, Brasil

MARCAÇÃO / MARKING: Marca do fabricante, modelo e características elétricas.

CARACTERÍSTICAS NOMINAIS / RATINGS:

2.25 A ou 3.25 A 20 Vdc. Class III ADLX45NAC2A
20 Vdc, 2.25 A/3.25 A/4.5 A (2.25A for 45 W Adapter / 3.25 A for 65 W Adapter / 4.5A for 90 W Adapter) 2,25 A a 4,5 , 20 Vdc, Class III

Entrada: 100-240V, 1,8 A, 50-60Hz
Saída: 20V - 3,25 A / 15 V - 3 A / 9 V - 2 A / 5 V - 2 A

LISTA DE ACESSÓRIOS / LIST OF ACCESSORIES: N/A

LISTA DE COMPONENTES CRÍTICOS / LIST OF CRITICAL COMPONENTS:

| Componente / Component | Manufacturer/ trademark | Type/model | Technical data | Norma/ Standard |
|--|--|---|---|---|
| Rating Label | Cymmetrik enterprise | CM-100T-019 | (Tested to Durability Test per Sub-clause 1.7.11) | NBR 14136, NBR NM 60884-1 |
| Cord set | Interchangeable | Interchangeable | -- | NBR 14136, NBR NM 60884-1 |
| Printed Wiring Board Printed Wiring Board for Wireless Network Card Alternate Printed Wiring Board for WWAN Module | Interchangeable | Interchangeable | Minimum V-1, 105°C | |
| Flexible Printed Wiring | Interchangeable | Interchangeable | Minimum V-2 or VTM-2. (SELV circuit, no components mounted on it) | |
| AC/DC adapter | Chicony Power Technology Co., Ltd. / Lenovo | ADLX45NCC2A ADLX45NCC2. (The dot "." in model name can be A to Z, 0 to 9 or blank for marketing purpose only) ADLX45NCC3A ADLX45NCC3. (The dot "." In model | I/P: 1.3A 100-240Vac 50-60Hz, Cl. II, DC-output: 2.25A 20V I/P: 1.3A 100-240Vac 50-60Hz, Cl. I, | IEC 60950-1 (ed. 2); am1, EN 60950-1: 2006+A11+A1+ A12:2011, UL 60950-1 |

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São Paulo – SP – Brasil - 04571-010
T: 55.11.3049.8300 / W: brazil.ul.com

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|------------|---------------------------------|--|--|--|
| | | name can be A to Z, 0 to 9 or blank for marketing purpose only) | DC-output: 2.25A 20V | |
| | | ADLX65NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only) | I/P: 1.8A 100-240V~ 50-60Hz, Cl. II. DC-output: 3.25A 20V | |
| | | ADLX65NC.3A (The dots "." in model name can be C, G, T, N and P for marketing purpose only) | I/P: 1.8A 100-240V~ 50-60Hz, Cl. I DC-output: 3.25A 20V | |
| | | ADLX90NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only) | I/P: 1.2A max. 100-240VAC 50-60Hz, Cl. II DC-output: 4.5A 20V | |
| | | ADLX90NC.3A (The dot "." in model name can be C, G, T, N and P for marketing purpose only) | I/P: 1.2A max. 100-240VAC 50-60Hz, Cl. I DC-output: 4.5A 20V | |
| | Delta Electronics Inc. / lenovo | ADLX45NDC2 ADLX45NDC2A (Class II, double insulated) and ADLX45NDC3A ADLX45NDC3B (Functional earthing) | I/P: AC 100-240V, 1.2A, 50-60Hz O/P: 20Vdc/2.25A | |
| | Delta Electronics Inc. / lenovo | ADLX65NDC2A ADLX65NDT2A (Class II equipment) and ADLX65NDC3A ADLX65NDT3A (Class I equipment) | I/P: 100-240Vac, 1.5A, 50-60Hz O/P: 20Vdc, 3.25A | |
| | Delta Electronics Inc. / Lenovo | ADLX65SDC2A ADP-45TD B | I/P: 100-240Vac, 1.5A, 50-60Hz, Cl. II, O/P: 20Vdc, 3.25A | |
| Alt. AC/DC | Delta Electronics | ADLX90NDC2A | I/P: AC 100-240V, 1.5A, 50-60Hz, | |

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| adapter | Inc. / lenovo | ADLX90NDT2A (Class II equipment) and | O/P: 20Vdc, 4.5A | IEC 60950-1 (ed. 2); am1, EN 60950-1: 2006+A11+A1+A12:2011, UL 60950-1 |
| | Delta Electronics Inc. / lenovo | ADLX90NDC3A ADLX90NDT3A (Class I equipment) ADP-65FD B (Class I equip.) ADP-90XD B | I/P: 100-240Vac, 1.5A, 50-60Hz O/P: 20Vdc, 3.25A | |
| | Lite-On Technology Corporation / Lenovo | ADLX65NDC3B ADLX65NDT3B (Class I equip.) ADLX65NDC2B (Class II equip.) ADP-65XB A, ADLX65SDC2A | I/P: AC 100-240V, 1.3A, 50-60Hz, Cl. II O/P: 20Vdc, 2.25A I/P: AC 100-240V, 1.3A, 50-60Hz, Cl. I | |
| | | ADLX45NL*2* (* = A-Z, 0-9 or blank) | O/P: 20Vdc, 2.25A | |
| | | ADLX45NLC3* (* = A-Z, 0-9 or blank) | I/P: AC 100-240V, 50-60Hz, 1.8A, Cl. II O/P: 20Vdc, 3.25A | |
| | | ADLX65NL*3* (* can be any character or blank) | I/P: AC 100-240V, 50-60Hz, 1.8A, Cl. I O/P: 20Vdc, 3.25A | |
| | | ADLX65SLC2A | I/P: AC 100-240V, 2.0A, 50-60Hz, Cl. II O/P: 20Vdc, 3.25A | |
| | | ADLX90NL*2* (* can be any character or blank) | I/P: AC 100-240V, 50-60Hz, 1.5A, Cl. II O/P: 20Vdc, 4.5A | |
| | | ADLX90NL*3* (* can be any character or blank) | I/P: AC 100-240V, 50-60Hz, 1.5A, Cl. I O/P: 20Vdc, 4.5A | |
| | | ADLX45DLC2* (The * can be any character or blank), PA-1450-17XX (The X can be any character or blank) | I/P: AC 100-240V, 50-60Hz, 1.8A, cl. I | |

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|---------------------------------|---------------------------------------|--|---|---|
| | | ADLX45DLC3* (The * can be any character or blank), PA-1450-18XX (The X can be any character or blank) PA-1650-72 PA-1450-12XX (X=A-Z, 0-9 or blank), ADLX45NLC3* (*=A-Z, 0-9 or blank except for ADLX45NLC3A) | O/P: 20Vdc, 3.25A I/P: 1.3A, 100-240Vac, 50-60Hz, Class I; O/P: 2.25A, 20Vdc, Tma: 40°C | |
| AC/DC adapter (Optional) | Acbel Polytech Inc. | 2) ADLX45NCC3A ADLX45NAC2A ADLX45NAC3A | I/P: 1.2A, 100-240Vac, 50-60Hz, Class II; O/P: 2.25A, 20Vdc ; 45W MAX. Tma: 40°C, L.P.S. | IEC 60950-1: 2005+A1+A2; EN 60950-1: 2006+A11:2009+A1:2010+A12 : 2011+A2:2013; |
| AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX45YDC3A | I/P: 100-240V~, 1.2A, 50/60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950 1:2006+A11+A1+ A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45YLC2A | I/P: AC 100-240V, 1.3A 50-60Hz - O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX45YDC2A | I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45YLC3A | I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950- 1:2006+A11+A1+ A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YCC3A | I/P: 100-240V~, 50-60Hz, 1.3A DC- output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950- 1:2006+A11+A1+ A12+A2, UL 60950-1 |

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|------------------------------|--|-------------|--|---|
| AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YAC2A | I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+ A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Acbel Polytech Inc. | ADLX45YAC3A | I/P: AC 100-240V, 50-60Hz, 1.2 ^a - O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX65YDC3A | I/P: AC 100-240V, 1.8A 50-60Hz -- O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX65YDC2A | I/P: AC 100-240V, 1.8A 50-60Hz -- O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65YLC3A | I/P: AC 100-240V; 1.8A; 50 60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65YLC2A | I/P: AC 100-240V; 1.8A; 50-60Hz - O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A .Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YCC3A | I/P: 100-240V~, 50-60Hz, 1.8A DC- output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YCC2A | I/P: 100-240V~, 50-60Hz, 1.8A. DC- output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |

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| AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YAC3A | I/P: AC 100-240V; 50-60Hz; 1.8A - O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A, Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter (Alternate) | Acbel Polytch Inc. | ADLX65YAC2A | I/P: AC 100-240V; 50-60Hz; 1.8A - O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Enclosure - for LCD cover | Toray Industries Inc. E I DUPONT DE NEMOURS & Co Inc. Teijin Limited Resin And | C23452S TCP1206-G50 A695H HTNFR55G50NHLW GXV-35(vv)(#U), (vv) - Indicates 40 GXV-3545WI | V-0, min.0.28 mm Thick V-0 min., 0.8mm thickness min., 65 °C min. V-0, min.0.4 mm thick V-0, min. 0.5 mm thick V-0, Minimum 1.25mm thick | UL 94 |
| - for LCD bezel | Plastic Teijin Limited Resin And Plastic Mitsubishi Engineering- Plastics Corp. Ecotech Polymers Inc | through 50 (#U) - Optional suffix except for letter U GXV-3540U(#), (#) - Suffix optional MB1700 PCABSFR(J)e, (J) - Denotes a three digit number from 701 to | V-0, min. 0.6 mm thick V-0, min. 0.81mm thick V-0, Minimum 0.85mm thick V-0, min. 0.80 mm thick | UL 94 |
| - for LCD bezel (for touch panel only) | Teijin Limited Resin And Bayer Materialscience AG Plastic Inter- changeable | 799 indicative of customer code. PC-(m1)28(m1)(#) (#) - Suffix optional; (m1) - is replaced by a digit 0 through 9.) Inter-changeable FR3002 + (z) ((z) – Material designation and color code may be followed by up to three | V-0 , min. 0.40 mm V-0, 1.8 mm thickness min., 75°C min. Glass V-0, min. 1.0mm thick | UL 94; UL 746C |

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| - for top side around keyboard | Mitsubishi Engineering-Plastics Corp. | letters and/or three numbers (does not include grades which are separately recognized with above material designation and suffix); | Al-Mg alloy, 0.8 mm thick. | |
| | Waffer Catcher | + - Material designations may be followed by a six digit numerical code denoting color) | | |
| - for bottom | Foxconn JuRong Huaye (JY) | TMB1615 | V-0, min.0.4 mm thick | |
| | Mitac CPM Ka shui E I DUPONT | AZ91D HTNFR55G50NHL | | |
| | Samsung SDI Co Ltd | GC 1150(+)(RR30) ((+) - May be replaced by one, two, or three numbers and/or letter(s); RR30 - 30% Recycled Material.) | V-0, 1.8 mm thickness min., 60°C min. | |
| - for top side around keyboard | Mitsubishi Engineering-Plastics Corp. | TMB1615+ (+- Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u),"S1" for F20- 54.) | V-0, min. 1.0mm thick | UL 94 |
| | Waffer Catcher | AZ91D | Al-Mg alloy, 0.8 mm thick. | -- |
| | Foxconn | AZ91D | | |
| | JuRong Huaye (JY) | AZ91D | | |
| | Mitac | AZ91D | | |
| | CPM | AZ91D | | |
| | Ka shui | AZ91D | | |

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| Enclosure (For Top side around keyboard) | MITSUBISHI ENGINEERING G-PLASTICS CORP | MB1800+, MB180(x)+ ((x) Represents a digit from 19, incl.+ Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF(v)(u), "S1" for F2054, "R" for grade MB2211, "V" for grade S3000+(f1), S3001+(f1), S3003+(f1).) | Plastic, V-0 min., 1.0mm thickness min., 60 °C min | UL 94 |
| - for bottom case | E I DUPONT DE NEMOURS & Co Inc. | HTNFR55G50NHL W HTNFR55G50NHLWSF | V-0, min.0.4 mm thick V-0, thickness 0.75mm min., 65°C | UL 94 |
| TFT-LCD panel (LED backlight) | Inter- changeable Au Optonics Corp AUO | Inter-changeable B125XTNZZZ B140HAK01.0 | 14.0", Glass is of min. 0.34 mm thickness. 12.5", Glass is of min. 0.34 mm thickness. 12.5 inch TFT- LCD with LED Backlight design | -- |
| LCD Panel (LED backlight) | AU Optonics Corporation LG Display Co., Ltd. LG Display Co., Ltd. Samsung Display Co., Ltd | B140XTN02.E LP140WF6 LP140WH8 LTN140AT35-401 N140HCA, N140HCA-EAB, N140BGA, N140BGA-EA3 | 14.0 inch (LED backlight), Glass is of min. 0.34mm thickness 14.0" TFT-LCD | Applicable parts of IEC 60950-1 |
| Alt. LCD Panel (LED backlight) | Samsung Display Co., Ltd InnoLux Interchangea ble | LTN140HL05-401 N140HCE Interchangeable | 14.0 inch (LED backlight), Glass is of min. 0.34mm thickness | |
| HDD (optional) | Seagate HGST Japan Ltd Toshiba Corp or equivalent | ST3 or 3.5 Series or ST with additional suffixes; ST9 or 2.5 Series or ST with additional suffixes or equivalent TT5SAE may have suffix MQ may have suffix | 5Vdc/12Vdc, 1.5A max. 5Vdc, 1.5A max. 5Vdc/12Vdc, 1.5A max. 5Vdc, 1.5A max. (5Vdc, 0.7A) (5Vdc, 1.4A) | IEC 60950-1: 2005 - UL 60950-1 |

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| HDD (Optional) Alternate | Seagate Singapore International Headquarters Pte Ltd. Western Digital Technologies Inc HGST Japan Ltd. Toshiba Corp Interchangeable | ST320LT012 ST500LT012 ST320LT007 WD may have suffix TS5SAF may have suffix TT7SAE may have suffix HDD2 may have suffix Interchangeable | (5Vdc, 0.55A) (5Vdc, 0.45A) 5Vdc, 1.5A 5Vdc, 0.7A 5Vdc Max. 1.5/1.0A, 5V/12Vdc | |
| SSD (optional) | Interchangeable Samsung Electronics Co Ltd. Micron Technology Inc Toshiba Corp Semiconductor & Storage Intel Corp Lite-on technology corporation | Interchangeable MZ-7 may have suffix MZ-N may have suffix REALSSD C400 2.5 CTxxxM500SSD1 THNSNF128GC SS SSDSC2 may PX-xxxGCSxxxxxx | 3.3Vdc or 5Vdc (5Vdc, 0.75A) 3.3Vdc, 3.5A max. (5Vdc, 2.0A) (5Vdc) (5Vdc) 5Vdc, 2.0A max. | EN 60950-1: 2006+A11+A1+ A12, UL 60950-1 EN 60950-1: 2006+A11+A1+ A12, UL 60950-1 IEC 60950-1 (ed.2);am1, UL 60950-1 |
| SSHD (optional) (Alternate) | Seagate Technology Inc. Interchangeable | ST3 with additional suffix, 3.5 Series ST9 with additional suffix, 2.5 Series Interchangeable | 5/12Vdc, 1.5 A max./ 1.5 A max. | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A 1+A12+A2, UL 60950-1 |
| Li-ion battery pack (building-in) (optional) | Sanyo Energy (Suzhou) Co. Ltd. / LENOVO Sony Taiwan Ltd. / lenovo LG Chemical | 45N1108 45N1110 45N1112 45N1116 ASM P/N 45N1112 45N1712 45N1118 | 11.1Vdc, 2.09Ah, 24Wh or 11.1Vdc, 2.14Ah, 24Wh 11.1Vdc, 2.09Ah, 24Wh 11.4Vdc, 2.06Ah, 24Wh 11.4Vdc, 2.06Ah, | IEC 60950-1 (ed. 2); am1 |

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| | Ltd. / Lenovo | SB10K97576 | 24Wh NOM 11.55Vdc; Typ. 2080mAh/24Wh; Min. 1970mAh/22.75Wh | |
| | Simplo Technology | | | |
| Alt. Building-in Li-ion battery pack | LG Chem, Ltd | SB10K97577 | 11.4Vdc, 2.10Ah / 24Wh | EC 60950-1(ed.2);am1;am2, EN 60950-1:2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054 |
| | Simplo Technology Co Ltd | SB10K97578 | | |
| External Li-ion battery pack | Sanyo Energy (Suzhou) Co. Ltd. / Lenovo | 45N1124 | 11.1V, 2090 (Typ.) / 2040 (Min.)mAh/ 24Wh | IEC 60950-1:2005+A1; EN 60950-1: 2006+A11: 2009+A1:2010+A12:2011; UL 60950-1; UL 2054 |
| | | 45N1128 | | |
| | Sanyo Energy (Suzhou) Co. Ltd. / Lenovo | 45N1134 | 10.8V, 4400 (Typ.) / 4300 (Min.) mAh/ 48Wh | |
| | | | | |
| | LG Chemical Ltd. / Lenovo | ASM P/N 45N1126 | 10.8Vdc, 6600 (Typ.) / 6500 (Min.) mAh/72Wh | |
| | | ASM P/N 45N1130 | | |
| | Simplo Technology Co. Ltd. / Lenovo | ASM P/N 45N1136 | 11.4Vdc, 2.06Ah, 24Wh | |
| | | | | |
| | Celxpert Energy Corp | 45N1132 | 10.8Vdc, 4.4Ah, 48Wh | |
| | Panasonic Group, Sanyo Electric Co., Ltd. (Lenovo) | SB10K97579 | 11.22Vdc, 6.34Ah, 72Wh 10.8Vdc or 11.1Vdc, 4.4Ah, 47Wh or 47.52Wh or 48Wh | |
| Alt. External Lion battery pack | | SB10K97580 | 11.55Vdc, Typ. 2080mAh/24Wh, Min. 1970mAh/22.75Wh | IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC62133(ed.2), UL 60950-1 (investigated with UL 2054) |
| | Sanyo Energy (Suzhou) Co Ltd | SB10K97582 SB10K97584 | 10.8Vdc, Typ. 4400mAh, 48Wh; Min. 4116mAh, 44.45Wh | |
| | | | | |
| | LG Chem, Ltd. | SB10K97583 SB10K97585 | 10.8Vdc, Typ. 6600mAh, 72Wh; Min. 6272mAh; 67.73Wh | |
| | | | | |
| | | | 10.8Vdc, 48Wh, 4400mAh 11.25Vdc, 6.32Ah, 72Wh | |

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| RTC battery (Lithium type) | Panasonic Mitsubishi Hitachi Maxell Ltd Panasonic Corporation of North America Varta Microbattery GmbH Mitsubishi Electric Corp Jhih Hong Technology Co Ltd FDK Corp Vic-Dawn Enterprise Co Ltd Interchangeable | CR2032 CR1632 | 3Vdc, maximum abnormal charging current 10 mA. Minimum of maximum abnormal charging current 4mA, Provided with an Abnormal charging protection circuit with a Resistor (R4) of 1 k Ohm and a Diode (D3) | UL 1642 |
| Front Battery | Sanyo Energy (Suzhou) Co., Ltd. | SB10F46460 | 11.25V, 2.09Ah, 24Wh | IEC60950-1, 2nd; am 1 + am2, IEC 62133(ed.2), UL60950-1, 2nd; am 2, UL2054 |
| Front Battery Alternate | Simplo Technology Co., Ltd. | SB10F46461 | 11.4V, 2.065Ah, 24Wh | IEC60950-1, 2nd; am 1 + am2, IEC 62133 (ed.2), UL60950-1, 2nd; am 2, UL2054 |
| Rear Battery | Sanyo Energy (Suzhou) Co., Ltd. | SB10F46462 | 11.1V, 2.14Ah, 24Wh | IEC60950-1, 2nd; am 1 + am2, IEC 62133 (ed.2), UL60950-1, 2nd; am 2, UL2054 |
| Rear Battery Alternate | Simplo Technology Co., Ltd. | SB10F46463 | 11.4V, 2.065Ah, 24Wh | IEC60950-1, 2nd; am 1 + am 2, IEC 62133 (ed.2), UL60950-1, 2nd; am 2, UL2054 |

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| DC fan for CPU | <p>Toshiba Home Technology Corp.</p> <p>Asia Vital Components Co., Ltd.</p> <p>Panasonic System Networks Kyushu Co., Ltd</p> <p>Delta Electronics, Inc.</p> | <p>M-244C-XX</p> <p>M-240C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits))</p> <p>M-252C-XX (where suffix "XX" represents numbers "0" through "9" or blank)</p> <p>BATA0607R5HV (V=ABCD where A,B,C,D may be A-Z, 0-9 or "-")</p> <p>BAZB0607R5HV (V=ABCD where A,B,C,D may be A-Z, 0-9 or "-")</p> <p>M-238C-1</p> <p>UDQFWYR02BCM</p> <p>UDQFRYR01BCM</p> <p>KSB0705HCA02 XXXXXX (X stands for 0-9, A-Z, - or blank)</p> <p>BAZD0707Z5HV (Z=A, B, C, G, R, S or T ; V=ABCD where A, B, C, D may be A-Z, 0-9 or "-") (UL: BAZD0707R5H(V) (where (V) may be XXXX, where X may be A through Z, 0 through 9 or "-".)</p> <p>ND75C16XXXXXXXXXXXX</p> <p>ND75C14XXXXXXXXXXXX</p> <p>(X stands for A-Z, 0-9, - or blank for marketing purpose only.)</p> | <p>5Vdc, 0.32A, 2 CFM min. for discrete main boards, 2.2 CFM min. for UMA main board</p> <p>5Vdc, 0.35A</p> <p>5Vdc, 0.50A, 2.771 CFM min. for discrete main boards, 2.734 CFM min. for UMA main board</p> <p>5Vdc, 0.50A, 2.651 CFM min. for UMA main board</p> <p>5Vdc, 0.29A</p> <p>5Vdc, 0.28A, 2.3 CFM min.</p> <p>5Vdc, 0.50A max., 2.84 CFM min.</p> <p>5Vdc, 0.45A max., 3.47CFM min</p> | <p>IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1+ A12+A2, UL 507</p> |
| Alt. DC fan for CPU | <p>Sunonwealth Electric Machine Industry Co., Ltd.</p> | <p>EF50050S1-C42Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank)</p> | <p>5Vdc, 0.45A, 2.6 CFM min. for UMA main board</p> <p>5Vdc, 0.45A, 2.4 CFM min. for UMA</p> | <p>IEC 60950-1: 2005, Am.1 UL507,</p> |

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| | | |
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| Delta Electronics, Inc. | EF50050S1-C3Z (Z stands for 15 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank) | main board |
| | EG50050S1-CA3Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank for marketing purpose only.) | 5Vdc, 0.4A max., 1.15 CFM min. for UMA main board |
| | KDB0505HCA07X XXXXX (X stands for 0-9, A-Z, - or blank) | 5Vdc, 0.50A, 2.539 CFM min. for discrete main board |
| | BAZA0607R5HV BAZA0807R5HV (V=ABCD where A,B,C,D may be A-Z,0-9 or "-") /, - or blank) | 5Vdc, 0.45A, 2.7 CFM min. for discrete main board |
| Sunonwealth Electric Machine Industry Co., Ltd. | EF50050S1-C45Z | |
| | BAZC0606R5HP005 | 5Vdc, 0.45A, 2.5 |
| Sunonwealth Electric Machine Industry Co., Ltd. | EF50050S1-C25Z (Z stands for 15 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank) | |
| | EF50050S1-C6Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank) | |
| Delta Electronics, | KDB05105HBA04 XXXXX (X stands for 0-9, A-Z, - or | CFM min. for discrete main board |
| | ND75C02 may have suffix | |
| | ND75C06XXXXXXXX XXX (X stands for A-Z, 0-9, - or blank) (UL: ND75C06(Y11) the number | 5Vdc, 0.40A max., 0.90 CFM min. for |

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| | Inc. Sunonwea lth Electric Machine Industry Co., Ltd. | after Y represents digit, each digit may be A rough 9, "-" or blank.) EG50050S1-C9Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A- Z, (,), ., /, - or blank) (UL: EG50050S1- C9(Y) (where (Y) stands for 30 variables, each variable may be A through Z, 0 | discrete main board | |
| | Toshiba Home Technology Corp. | M-256C-XX (XX : Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits)) | 5Vdc, 0.29A, 1.8CFM | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+ A12+A2, UL 507 |
| LPS protector IC for USB ports | Texas Instruments, Inc. Global Mixed- mode Technology Inc. Texas Instruments, Inc. Pericom Semi- conductor Corporation PSE | TPS2069DGN G548A1, G548A2, G548B1, G548B2, G548C1, G548C2, G548D1, G548D2 TPS2069C, followed by DBV, DGK or DGN, may be followed by additional letters and numbers. TPS2543, TPS2544, TPS2545 and TPS2546. PI5USB2543ZHE PI5USB25xyZHEz, where xx is 44 or 46 and y is blank or A, ZH is packaging type, E is Pb-free, and z is blank for bulk | 2.7-5.5Vdc, continuous rating: 1.5A, current limit: 2.6A 3.0-5.5Vdc, current rating: 2.0A, 1.5A, 1.0A and 0.75A, protection current rating: 2.8A, 2.1A, 1.4A and 1.2A 4.5Vdc to 5.5Vdc, continuous rating: 1.5A, current limit: 2.7A 4.5-5.5Vdc, continuous rating: 2.5A, current limit: 3.1A - 5Vdc +/- 10%, current limit:250mA to 2.5A 4.5 - 5.5 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.18 A | IEC 60950-1: 2005, Am.1 |

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| LPS protector IC for Mini Display port | Texas Instruments, Inc. | TPS2530 may be followed by DBV, may be followed by R or T | 2.7Vdc to 5.5Vdc, continuous rating: 500mA, current limit: 1.3A | IEC 60950-1: 2005+A1; UL Subject 2367 |
| | On Semiconductor France SAS | NCP380xSN05AA T1G Where x = L or H, TPS204.. and TPS205.. (The first "." can be any number from 1 to 4 and defines the number of power switches internal to the device. The second is a revision letter for that particular family. Alphabetic characters representing device package options may follow model number) | 2.5Vdc to 5.5Vdc, continuous rating: 0.5A, current limit: 0.7A 0.5A per output channel 2.7- 5.5Vdc, Cl. III, SELV | |
| | Global Mixed- mode Technology Inc | G5250M1, G5250L2, G5250L1, G5250M2 | 3.0-5.5Vdc, Operational Current Rating per output: 1.0A, Overcurrent Protection Current Rating per output: 1.4A | |
| Power Distribution Switch (U6: JUSB1, JUSB2) (Located on Mainboard) | Global Mixedmode Technology Inc. | G547I2 | 3 A max., 3.0-5.5 Vdc; Class III. SELV | IEC 60950-1: 2005; UL Subject 2367 |
| | Silergy Technology | SY6288xyyy (x=A, B, C, D or E; y= 0-9,A-Z or blank) | 3.7 A max., 2.5-5.5Vdc; Class III. SELV | |
| Power Distribution Switch (UT1) (Located on VGA & Power Button Board) | ANPEC Electronics Corp. | APL3517 series | 0.5 A, 2.7-5.25 Vdc; Class III. SELV | IEC 60950-1: 2005+A1; UL Subject 2367 |
| Power Distribution Switch (UT1) (Located on VGA & Power Button Board) | Global Mixed- Mode Technology Inc | G5250Q1T73U | 0.5 A, 2.7-5.25 Vdc; Class III. SELV | IEC 60950-1: 2005+A1; UL Subject 2367 |
| Power Distribution switch for USB3.0, USB2.0 and HDMI ports) | Global Mixed- Mode Technology Inc (GMT) | G5260ARE1U G524B2T11U | 4.5-5.5 Vdc, output Continuous rating: 0.2 A, output current limit: 0.3-0.5 A per output channel, Cl.III, SELV | IEC 60950-1: 2005+Am1+Am 2, EN 60950-1:2006+Am11+ Am1+Am12+Am2, UL 2367 |

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| Power Distribution Swith (U187) for USB Type-C port use | Texas Instruments Incorporated | TPS65982 | Inputs: VIN_3V3 = 3.3Vdc; PP_EXT = 4.5 - 22Vdc; PP_HV = 4.5 - 22Vdc; PP_5V0 = 4.75 - 5.5Vdc; PP_CC1 = 2.95 - 5.5Vdc; PP_CC2 = 2.95 - 5.5Vdc; Cl. III - Outputs: PP_EXT = 4.5 - 22Vdc, 4.301A max; PP_HV = 4.5 - 22Vdc, 4.306A max; PP_5V0 = 4.75 - 5.5Vdc, 3.69A max; PP_CC1 = 2.95 - 5.5Vdc, 0.9A max; PP_CC2 = 2.95 - 5.5Vdc, 0.9A max | IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367 |
| Power Distribution Swith (U13) for USB3.0 ports | Global Mixedmode Technology Inc. | G517AL series | 2.7-5.5Vdc, Operational Current Rating per output: 2.1A, Overcurrent Protection Current Rating per output: 2.2-3.0A | IEC 60950-1: 2005+A1+A2 |
| Power Distribution Swith (U53, U88, U120) For USB port use | Texas Instruments Incorporated | TPS2069 may be followed by other characters that do not impact the safety feature of the device. | Input Voltage: 2.7Vdc - 5.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 3.9 A | IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367 |
| Alt. Power Distribution Swith (U53, U88, U120) for USB port use | Texas Instruments Incorporated | TPS2546 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 = 4.5Vdc to 5.5Vdc; Output Continuous Rating = 2.5A; Output Current Limit = 3.1A | IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367 |
| Supplementary Protector (U100) for DP Alternate | On Semiconductor France Sas | NCP380HSN05 AAT1G | 2.5 - 5.5V, Output Continuous Rating 0.5A, Output Current Limit 0.7A. | |
| | Texas Instruments Inc. | TPS205 may have suffix TPS2530 | 2.7 - 5.5V, 0.5A. (The output of the device provides limited power sources in accordance with clause 2.5 EN 60950-1/A1:2010 Annex CC.) | |
| | K.K. Tyco Electronics Raychem | TPS2541ARTE may have suffix TPS2069C may have suffix | 4.5 - 5.5Vdc, 2.7A. (The output of the device provides | |
| | | nanoSMDC150 | 6Vdc, 1.5A | |
| Supplementary Protector (U88) for USB (J34) | Pericom Technology (Shanghai) Co.,LTD | PI5USB2546 may have suffix | 4.5 - 5.5V, output continuous 2.5A, output limit 3.18A. | UL2367, IEC60950-1, 2nd; am1 + am2 |

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| Supplementary Protector (U53, U2 on Subcard) for USB (J33, J2 on Subcard) Alternate | Global Mixedmode Technology Inc. | G524C may have suffix | 2.7 - 5.5V, output continuous 1.6A, output limit 2.3A. | IEC60950-1, 2nd; am1 + am2 |
| Supplementary Protector (U110) for HDMI (J42) | Texas Instruments Inc | TPS2553 may have suffix | 2.5 - 6.5V, output continuous 1.5A, output limit 1.7A. | UL2367, IEC60950-1, 2nd; am1 + am2 |
| Supplementary Protector (U110) for HDMI (J42) Alternate | Global Mixedmode Technology Inc. | G517AL may have suffix | 2.7 - 5.5V, output continuous 2.15A, output limit 2.75A. | UL2367, IEC60950-1, 2nd; am1 + am2 |
| Polyswitch (LPS protector for VGA port) | Polytronics Technology Corp. | nanoSMDC150xx xxxxxxxxxxxxxxxx xx (x=0-9, A-Z, ".", "-", or blank) | 6Vdc, 1.5A | EN 60730-1, UL 1434 |
| Speakers (optional) | Interchangeable | Interchangeable | Each rated 4Ω, 2.5W max. (two provided) 2 provided, each 8ohm, 1W (typical) | |
| PCBs | Interchangeable | Interchangeable | V-1 min., 105C | UL 796 |
| ThinkPad Basic Dock (Optional) ThinkPad Pro Dock (Optional) ThinkPad Ultra Dock (Optional) (Dock for UMA used only) | Universal Global Scientific Universal Global Scientific Universal Global Scientific | 40A0 40A1 40A2 | 20Vdc, 3.25A 20Vdc, 3.25A 20Vdc, 4.5A | IEC 60950-1 (ed. 2); am1 |
| ThinkPad WiGig Dock (Optional) | Inventec Corporation | W123 | DC 20V; 2.25A | IEC 60950-1:2005+A1+A2 |
| Enclosure: Keyboard Bezel | Interchangeable | Mg Alloy AZ91Z Mg Alloy AZ91D | Magnesium alloy. (Tested to Flame Test per Sub-clause A.2) | |
| Enclosure: Base Cover | Interchangeable | Mg Alloy AZ91Z Mg Alloy AZ91D | Magnesium alloy. (Tested to Flame Test per Sub-clause A.2) | |
| Enclosure: Front Metal Bezel | SUS304 1/2H | SUS | -- | |
| Enclosure: Front Sheet Bezel | Teijin Chemicals Ltd | PC-3280 | V-0, Minimum 0.45mm thick | |
| Enclosure: Front Sheet Bezel | Shenzhen Teesun Technology Co. Ltd. | PC-FR 1363 | Minimum 0.45 mm thick. (Conducted Glow-wire Flammability Test) | - |

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|---|---|---|--|--------------------------|
| Keyboard | Chicony Electronics Co Ltd Lite-On Technology Corp | CSXXX-XX (X = 0-9 or A-Z) CS13xy (x = Blank or X or T for size difference and key layout difference; y= Blank or BL for Back light) THXX-XXXX (X can be 0-9, A-Z, a-z or blank) | Minimum HB. | |
| Heatsink | -- | -- | Aluminium, copper or copper alloy | |
| Internal Wiring | Interchangeable | Interchangeable | PVC, TFE, PTFE, FEP, polychloroprene, polyimide, or marked VW-1. | |
| Connectors and Receptacles for Several provided four USB ports, LAN port, Display port, VGA (D-sub) Earphone port, Media Card port and Express Card port. Alternate | Interchangeable | Interchangeable | Copper Alloy Pins housed in bodies of Plastic, V-1 or Better. | |
| Fuse (F25) | Panasonic Corporation, Panasonic Corporation Of North America | ERBRD may have suffix | Rated 32V, 0.5A. | UL248 |
| Fuse (F25) Alternate | Littelfuse Inc | 497 | Rated 32V, 0.5A. | UL248 |
| Fuse (F13, F23) | Panasonic Corporation, Panasonic Corporation Of North America | ERBRD may have suffix | Rated 32V, 1.0A. | UL248 |
| Fuse (F13, F23) Alternate | Littelfuse Inc | 497 | Rated 32V, 1.0A. | UL248 |
| Docking Connector | Interchangeable | Interchangeable | Copper Alloy Pins housed in bodies of Plastic, V-1 or Better. | UL94 |
| PTC for VGA (Located on VGA & Power Button Board) | POLYTRONICS TECHNOLOGY CORP. LITTELFUSE INC. | SMD1812P110TF | 8Vdc, 1.1A | IEC/EN 60730-1 - UL 1434 |
| Plastic Barrier (For bottom speaker openings use) | CHENGDU KANGLONGX IN PLASTICS CO LTD | KLX FRPC-1860B, KLX FRPC-1860-83B | VTM-0, 0.125 mm thickness min. | UL 94 |
| - Adhesive (For plastic barrier use) | JINKAIDA GLUTINOUS MANUFACTURE CO., LTD | JKD W001 | -- | -- |
| Sponge (On Heatsink module) - Adhesive (For sponge use) | Inoac Corp 3M Dexerials Corp | Calmflex F-2G (c2) 9448 G9000 | HF-1, 2.0mm thickness min. -- -- | UL 94 -- -- |

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|--|---|--|---|--|
| Glue | Suzhou Jinkaida Glutinous MER Co., Ltd. Suzhou SIDIKE Electronics Adhesive Material Co.,Ltd. 3M Dexerials Corporation | W001 DS-10 9448A/ 9448AB G9000-SY | Complied with Cl. 4.6.5. Complied with Cl. 4.6.5. | -- |
| Adhesive tape | DIC Corporation | 8800SD | -- | IEC 60950-1 |
| Overcurrent protective device (for USB Type C port) (to be used when providing USB type C port) | AEM Components (Suzhou) Co Ltd | T0603FF5000TM | 35 Vdc, 5 A | Applicable parts of IEC 60950-1, UL 248-1, UL248-14 |
| PCB | HONGHENGSH ENG ELECTRONICAL TECHNOLOGY (HUAIAN) CO LTD | HD5, HD6, ML, ML1, ML3, ML5,ML6, MLU | V-0, min. 105°C | Applicable parts of IEC 60950-1, UL 94, UL 796 |
| | T-MAC TECHVEST PCB CO LTD | MV-1, YA-1, YA-2, YA-3, YA-3A, YA- 4, YA-4A, YA-11 | V-0, min. 105 °C | Applicable parts of IEC 60950-1, UL 94, UL 796 |
| Adaptaer (for 20 Vdc, 2,25 A) | Chicony Power Technology Co Ltd | ADLX45YCC2D | I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II, 40° C Altitude: 5000 m | CB by Nemko (NO102327) CB by Demko (DK-73341-UL), UL |
| Adapter (For 20 Vdc, 2.25 A) (Alternate) | Chicony Power Technology Co Ltd | ADLX45YCC3D | I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II, 40° C Altitude: 5000 m | CB by Nemko (NO102328) CB by Demko (DK-73342-UL), UL |
| Adapter (For 20 Vdc, 2.25 A) (Alternate) | Delta Electronics, Inc. | ADLX45YDC3D, ADLX45YDC2D | I/P: 100-240 Vac, 1.2 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II with functional earth for model ADLX45YDC3D, Class II for model ADLX45YDC2D, 40° C Altitude | CB by TUV RH (JPTUV- 088399); CB by TUVRH (JPTUV-088525), UL |
| Adapter (For 20 Vdc, 2.25 A) (Alternate) | Lite-On Technology Corp | ADLX45YLC2D | I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by Demko (DK-74396-UL); CB by Demko (DK-74550-UL), UL |
| Adapter (For 20 Vdc, 2.25 A) (Alternate) | Lite-On Technology Corp | ADLX45YLC3D | I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by Demko (DK-73964-UL); CB by Demko (DK-73960-UL), UL |
| Adapter (For 20 Vdc, 3.25 A) (Alternate) | Chicony Power Technology Co Ltd | ADLC65YCC2D | I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by Nemko (NO102312). CB by Demko (DK-73335-UL), UL |
| Adapter (For 20 Vdc, 3.25 A) (Alternate) | Chicony Power Technology Co Ltd | ADLX65YCC3D | I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P:20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 | CB by Nemko (NO102313); CB by Demko (DK-73338-UL), UL |

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|---|------------------------------------|---|---|--|
| | | | Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | |
| Adapter (For 20 Vdc, 3.25 A) (Alternate) | Delta Electronics, Inc. | ADLC65YDC3D, ADLC65YDC2D | I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by TUVRH (JPTUV- 088370); CB by TUVRH (JPTUV-088549), UL |
| Adapter (For 20 Vdc, 3.25 A) (Alternate) | Lite-ON Technology Corp | ADLX65YLC2D | I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by Demko (DK-73622-UL); CB by Demko (DK-73627-UL), UL |
| Adapter (For 20 Vdc, 3.25 A) (Alternate) | Lite-ON Technology Corp | ADLX65YLCD3 | I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m | CB by Demko (DK-73466-M1- UL); CB by Demko (DK-73473- M1-UL), UL |
| DC Fan | Delta Electronics Inc. | ND75C30XXXXXXXXXX, stands for A-Z, 0-9, - or blank for marketing purpose only | 5 Vdc, 0.5 A, 3.05 CFM min | UL, TUV |
| DC Fan | Asia Vital Components CO., Ltd. | BAPA0706R5HV V=ABCD where A, B, C, D may be A-Z, 0-9 or "-" | 5 Vdc, 0.5 A, 3.6 CFM min | UL, TUV |

Seção 71:

| Componente/Component | Fabricante/ Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|--------------------------------------|---------------------------------------|---|--|---|
| Cord set (Optional) | Interchangeable | Interchangeable | --- | NBR 14136, NBR NM 60884-1 |
| AC/DC adapter | Acbel Polytech Inc. | ADLX45NAC2A | I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, 45W MAX. Cl. I II (altitude: 3100m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Acbel Polytech Inc. | ADLX45NAC3A | I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, 45W MAX. Cl. I (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45NCC2A, ADLX45NCC2. (The dot "." in model name can be B to Z, 0 to 9 or blank for marketing purpose only.) | I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45NCC3A, ADLX45NCC3. (The dot "." in model name can be B to Z, 0 to 9 or blank for marketing purpose only.) | I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. I (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc | ADLX45NDC2A, ADLX45NDC3A, ADLX45NDC2, ADLX45NDC3, ADLX45NDC3B, ADP-45TD B | I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |

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|--------------------------------------|------------------------------------|--|---|---|
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45DLC2* (The * can be any character or blank) PA-1450-17XX (The X can be any character or blank) | I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45DLC3* (The * can be any character or blank) PA-1450-18XX (The X can be any character or blank) | I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. I (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only.) | I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65NC.3A (The dot "." in model name can be C, G, T, N and P for marketing purpose only.) | I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. I (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc | ADLX65NDC3A, ADLX65NDC3B, ADLX65NDC2A, ADLX65NDC2B, ADLX65NDT3A, ADLX65NDT3B, ADLX65NDT2A, ADLX65NDT2B, ADP-65FD B | I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65NL*2* (* can be any character or blank), PA-1650-71 | I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. II (altitude: 3048m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65NL*3* (* can be any character or blank), PA-1650-72 | I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. I (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX65SDC2A | I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX45YDC3A | I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class I. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX45YDC2A | I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45YLC2A | I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX45YLC3A | I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YCC3A | I/P: 100-240V~, 50-60Hz, 1.3A DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. I. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |

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|---|---|---------------------------|---|--|
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YCC2A | I/P: 100-240V~, 50-60Hz, 1.3A DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Acbel Polytech Inc / trademark for lenovo | ADLX45YAC2A | I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Acbel Polytech Inc . | ADLX45YAC3A | I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX65YDC3A | I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Delta Electronics Inc. | ADLX65YDC2A | I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65YLC3A | I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Lite-On Technology Corporation | ADLX65YLC2A | I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YCC3A | I/P: 100-240V~, 50-60Hz, 1.8A DC-output: 2A5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YCC2A | I/P: 100-240V~, 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YAC3A | I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A, Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 |
| Alt. AC/DC adapter (Alternate) | Acbel Polytech Inc . | ADLX65YAC2A | I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| Enclosure: Part of Base Cover | Interchangeable | Mg Alloy AZ91D | Magnesium Alloy. (Conducted Flame Test per sub-clause A.2.) | -- |
| Enclosure: Part of Keyboard Bezel | Interchangeable | Mg Alloy AZ91D | Magnesium Alloy. (Conducted Flame Test per sub-clause A.2.) | -- |
| Enclosure: Part of LCD Rear Cover | Toray Industries Inc. | A695H may have suffix | V-0, nominal 1.5 mm thick. | UL94 |
| Enclosure: Part of LCD Rear Cover Alternate | Toray Industries Inc. | C3452S may have suffix | V-0, nominal 1.35 mm thick. | UL94 |
| Enclosure: Part of LCD Rear Cover Alternate | TEIJIN limited Resin and Plastic | GXV-35 may have suffix | V-0, nominal 1.35 mm thick. | UL94 |

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|-------------------------------------|---|---|--|--|
| Enclosure: Front Sheet Bezel | Polyshine Technology(Shanghai) Co Ltd | Pxx07 may have suffix ("x" would be replaced by a single letter from A to Z.) | V-0, nominal 0.43 mm thick | UL94 |
| Enclosure: Front Bezel Cover bottom | Mitsubishi Engineering-Plastics Corp | MB1700 may have suffix | V-0, nominal 0.8 mm thick. | UL94 |
| Printed Wiring Board | Interchangeable | Interchangeable | Minimum V-1, 105°C | UL796 |
| Flexible Printed Wiring | Interchangeable | Interchangeable | Minimum V-2 or VTM-2. (SELV circuit, no components mounted on it) | UL746E |
| Battery Pack | LG Chem, Ltd. | L17L6P71 | 11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P | IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2 |
| Battery Pack Alternate | Simplo Technology Co Ltd | L17M6P71 | 11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P | IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2 |
| Battery Pack Alternate | Celxpert Energy Corp | L17C6P71 | 11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P | IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2 |
| RTC battery | Interchangeable | CR2016 | Minimum of maximum abnormal charging 10mA. Provided with abnormal charging protection circuit with a Resistor (R4) 1k ohm and Diode (D3) | UL1642 |
| LCD Panel | AU Optronics Corp | B125XTNZZZZ (Z = any alphanumeric character or dot or blank) | 12.5 inch TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1 |
| LCD Panel Alternate | Infovision Electronics (Kunshan) Co Ltd | M125NWxyyyy (where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-") | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| LCD Panel Alternate | Hefei BOE Optoelectronics Technology Co Ltd | ***12***-*** where *** could be any letter of "0" to "9" or "A" to "Z" or blank | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1 |
| LCD Panel Alternate | AU Optronics Corp | B125HANZZZZ (Z = any alphanumeric character or dot or blank) | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| LCD Panel Alternate | Infovision Electronics (Kunshan) Co Ltd | M125NWxyyyy (where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-") | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| LCD Panel Alternate | Innolux Corp | N125HCE-Gxx where "X" could be any letter of "0" to "9" or "A" to "Z" or blank | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| LCD Panel Alternate | AU Optronics Corp | B125HAKZZZZ (Z = any alphanumeric character or dot or blank) | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| LCD Panel Alternate | Infovision Electronics (Kunshan) Co Ltd | R125NWxyyy (where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-") | TFT-LCD with LED Backlight design. | IEC 60950-1(ed.2);Am1+Am2 |
| SSD | Lenovo (Beijing) Ltd | LENSE20512GMSP34MEAT2TA may have suffix | 3.3Vdc, 3A | IEC 60950-1(ed.2);Am1+Am2 |
| SSD Alternate | Interchangeable | Interchangeable | 3.3 Vdc | IEC 60950-1(ed.2);Am1+Am2 |
| Keyboard | Chicony Electronics Co Ltd | CMSNBL-xxxx or CMSBL-xxxx (Where x may be 0-9, a-z, A-Z, "-", ".", "-" or blank) | Minimum HB | UL60950-1 |
| Keyboard Alternate | Lite-On Technology Corp | SN5370 may have suffix | Minimum HB | UL60950-1 |
| Keyboard Alternate | Primax Electronics Ltd | NBLBF or NBBF | Minimum HB | UL60950-1 |

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|--|---|--|---|---|
| Supplementary Protector (U88, IC Current limiter) for USB AOU(J34) | Texas Instruments Inc | SN1702001 may have suffix | 4.5-5.5Vdc, continuous 2.5A protective 3.1A. | IEC60950-1 (ed2) Am1+Am2 |
| Supplementary Protector (U53, IC Current limiter) for USB(J33) | Texas Instruments Inc | TPS2069 may have suffix | 2.7-5.5Vdc, continuous 1.5A protective 3.9A. | IEC60950-1 (ed2) Am1+Am2 |
| Supplementary Protector (U53, IC Current limiter) for USB(J33) Alternate | ROHM Co Ltd | BD82032FVJ may have suffix | 4.5-5.5Vdc, continuous 1.5A protective 2.3A. | IEC60950-1 (ed2) Am1+Am2 |
| Supplementary Protector (U110) for HDMI(J62) | Texas Instruments Inc | TPS2553, may be followed by -1, followed by DRV or DBV | 2.5-6.5Vdc, continuous 1.5A protective 1.7A | IEC60950-1 (ed2) Am1+Am2 |
| Supplementary Protector (U192) for Thunderbolt, Type C (J59, J60) | Texas Instruments Inc | SN1701012 may have suffix (TPS65988) | PPHV1, PPHV2: 4.5-22Vdc, continuous 4A protective 4.91A, PPCABLE1, PPCABLE2 2.95-5.5Vdc, continuous 0.6A protective 0.9A, | IEC60950-1 (ed2) Am1+Am2 |
| Supplementary Polyswitch (F41, Thermistor) for RJ45 dongle(J59) | AEM Components (Suzhou) Co Ltd | PBS0603-035F may have suffix | 6Vdc, hold 0.35A, trip 0.75A | IEC/EN60738-1:2006+A1, IEC/EN60738-1-1:2008 |
| Supplementary Polyswitch (F41, Thermistor) for RJ45 dongle(J59) Alternate | Bourns Electronics (Taiwan) Ltd | MF-FSMF035X may have suffix | 6Vdc, hold 0.35A, trip 0.75A | IEC/EN60730-1:2000 |
| Fuse (F23, F51) | Panasonic Corporation, Panasonic Corporation Of North America | ERBRD may have suffix | 32 Vdc, 1 A | UL248 |
| Fuse (F23, F51) Alternate | Littelfuse Inc | 497 may have suffix | 32 Vdc, 1 A | UL248 |
| Fuse (F25) | Panasonic Corporation, Panasonic Corporation Of North America | ERBRD may have suffix | 32 Vdc, 0.5 A | UL248 |
| Fuse (F25) Alternate | Littelfuse Inc | 497 may have suffix | 32 Vdc, 0.5 A | UL248 |
| DC Fan | Asia Vital Components Co Ltd | BAZA0605R5H may have suffix | 5Vdc, 0.5A | UL507, IEC 60950-1(ed.2);Am1+Am2 |
| DC Fan Alternate | Delta Electronics Inc | ND55C47 may have suffix | 5Vdc, 0.45A | UL507, IEC 60950-1(ed.2);Am1+Am2 |
| Speaker | Interchangeable | Interchangeable | Two provided. Each 8ohm, 1W (typical) | -- |
| Interconnecting Cable (Optional) | Interchangeable | Interchangeable | Max. 3.05 m in length, VW-1 or FT-1. | UL758 |
| Connectors and Receptacles for USB ports, Ethernet port, HDMI port, Audio port and micro SD card port. | Interchangeable | Interchangeable | V-1 or Better. | UL94 |

Seção 73:

| Componente/Component | Fabricante/Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|----------------------|---|---------------------------|---|---|
| Cord set (Optional) | Interchangeable | Interchangeable | --- | NBR 14136, NBR NM 60884-1 |
| Alt. Power Adapter | Acbel Polytech Inc / trademark for lenovo | ADLX45YAC2A | I/P: AC 100-240V 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/2.0A or 15V/ 3.0A or 20V/2.25A, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |

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|---------------------------|--------------------------------------|--|---|--|
| Alt. Power Adapter | Acbel Polytech Inc . | ADLX45YAC3A | I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Delta Electronics, Inc. | ADLX65YDC3A | I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Delta Electronics, Inc. | ADLX65YDC2A | I/P: AC 100-240V 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Lite-On Technology Corporation | ADLX65YLC3A | I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Lite-On Technology Corporation | ADLX65YLC2A | I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Chicony Power Technology Co., Ltd. | ADLX65YCC3A | I/P: 100-240V~ 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Chicony Power Technology Co., Ltd. | ADLX65YCC2A | I/P: 100-240V~ 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m) | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Acbel Polytech Inc . | ADLX65YAC3A | I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC5V/2A,9V/2A,15V/ 3A,20V/3.25A, Class I. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. Power Adapter | Acbel Polytech Inc . | ADLX65YAC2A | I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A,9V/2A,15V/ 3A,20V/3.25A Class II. (altitude: 5000m) | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Enclosure (for LCD Cover) | Toray Industries Inc | A695H | V-0, thickness 0.8mm min., 130°C | UL 94 |
| Enclosure (for LCD Bezel) | 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-3000+(f1), S-3001+(f1), S-3003+(f1) & S-2000+(f1), S-2001+(f1), S-2003+(f1).) | V-0, thickness 0.75mm min., 60°C | UL 94 |

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|---|---|--|---|--|
| Enclosure (for top side around Keyboard) | 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-3000+(f1), S- 3001+(f1), S-3003+(f1) & S- 2000+(f1), S-2001+(f1), S- 2003+(f1).) | V-0, thickness 1.0mm min., 60°C | UL 94 |
| Enclosure (for bottom case) | E I Dupont De Nemours & Co Inc | HTNFR55G50NHLW | V-0, thickness 0.75mm min., 65°C | UL 94 |
| TFT-LCD panel | AU Optronics Corporation | B140HAK01.0 | 14.0" (LED backlight) , Glass is of min. 0.34mm thickness | IEC 60950-1 |
| TFT-LCD panel | Interchangeable | Interchangeable | 14.0" (LED backlight), Glass is of min. 0.34mm thickness | IEC 60950-1 |
| HDD (optional) | Western Digital Technologic, Inc. | WDUUUUXZYXXYY | Max. 1.5A/1.0A, 5Vdc /12Vdc | IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| HDD (optional) | Interchangeable | Interchangeable | Max. 1.5A/1.0A, 5Vdc/12Vdc | IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 |
| SSD (optional) | Samsung Electronics Co., Ltd. | MZ-N***** (*= 0-9, A-Z, blank, slash or dash) | 3.3Vdc, 3.5A max. | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| Alt. SSD (optional) | Lite-on Technology Corporation | CV3- CExxxxxxx ("x" can be any alphanumeric character or blank) | 5Vdc, 1.0 or 1.5 or 2.0A | IEC 60950- 1:2005+A1+A2 |
| Alt. SSD (optional) | Interchangeable | Interchangeable | Generic, 3.3 Vdc, 3.5A Max.; or 5Vdc, 2.0A Max. | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| SSHD (optional) | Seagate Technology Inc. | ST3 with additional suffix, 3.5 Series | 5/12Vdc, 1.5 A max. | IEC 60950-1 |
| SSHD (optional) | Seagate Technology Inc. | ST9 with additional suffix, 2.5 Series | 5Vdc, 1.5 A max. | IEC 60950-1 |
| SSHD (optional) | Interchangeable | Interchangeable | 5/12Vdc, 1.5 A max., or 5Vdc, 1.5 A max. | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2,UL 60950-1 |
| Speakers (two provided) | Interchangeable | Interchangeable | Each rated 4Ω max., 2.5W max. | IEC 60950-1 |

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|--|---------------------------------|---------------------------|---|---|
| Building-in Li-ion battery pack (Optional) | Sanyo Energy (Suzhou) Co Ltd | SB10K97576 | NOM 11.55Vdc; Typ. 2080mAh/24Wh; Min. 1970mAh/22.75Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054 |
| Alt. Building-in Li-ion battery pack (Optional) | LG Chem, Ltd | SB10K97577 | 11.4Vdc, 2.10Ah / 24Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054 |
| Alt. Building-in Li-ion battery pack (Optional) | Simplo Technology Co Ltd | SB10K97578 | 11.46Vdc, 2.095Ah or 24Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054 |
| External Li-ion battery pack | Sanyo Energy (Suzhou) Co Ltd | SB10K97579 | NOM 11.55Vdc, Typ. 2080mAh/ 24Wh, Min. 1970mAh/22.75Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054 |
| External Li-ion battery pack | LG Chem, Ltd. | SB10K97580 | 11.4Vdc, 2.1Ah, 24Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 |
| External Li-ion battery pack | Celxpert Energy Corp | SB10K97581 | 11.4Vdc, 24Wh, 2.11Ah | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054) |
| Alt. External Li-ion battery pack | Sanyo Energy (Suzhou) Co Ltd | SB10K97582 | 10.8Vdc, Typ. 4400mAh, 48Wh; Min. 4116mAh, 44.45Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054) |
| Alt. External Li-ion battery pack | LG Chem, Ltd. | SB10K97583 | 10.8Vdc, 48Wh, 4400mAh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 |
| Alt. External Li-ion battery pack | Sanyo Energy (Suzhou) Co Ltd | SB10K97584 | 10.8Vdc, Typ. 6600mAh, 72Wh; Min. 6272mAh; 67.73Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054) |

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|---|---|---|--|---|
| Alt. External Li-ion battery pack | LG Chem, Ltd. | SB10K97585 | 11.25Vdc, 6.32Ah, 72Wh | EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054) |
| Alt. External Li-ion battery pack | Simplo Technology Co Ltd | SB10K97597 | 11.46Vdc, 2.095Ah or 24Wh | IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1 +A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054) |
| DC Fan | Delta Electronics, Inc. | ND75C16XXXX XXXXXXX (X stands for A-Z, 0-9, - or blank for marketing purpose only.) | 5Vdc, 0.45A Max., 3.47CFM min. | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 507 |
| DC Fan | Sunonwealth Electric Machine | EG50050S1-CA3Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank for Marketing purpose only.) | 5Vdc, 0.45mA, 2.25W, 3.9CFM | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 507 |
| DC Fan | Toshiba Home Technology Corp. | M-256C-XX (XX : Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits)) | 5Vdc, 0.29A, 1.8CFM | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 507 |
| RTC battery (Lithium type) | Panasonic Corporation Of North America | CR1632#, CR1632*, CR-1632* (# - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types ; * - 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 4mA | UL 1642 |
| RTC battery (Lithium type) | Hitachi Maxell Ltd | CR1632* (* - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types.) | 3Vdc, max. abnormal charging current 4mA | UL 1642 |
| Alt. RTC battery (Lithium type) | Double Best Co Ltd | CR1632 (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) | 5Vdc, max. abnormal charging current 10mA | UL 1642 |

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| Componente/ Component | Fabricante/ Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|---|---------------------------------|--|--|--|
| Power Distribution Switch (U207 for USB type C port used) | Texas Instruments Inc | TPS65988 | Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A ; 2. PPHV2: 4.5 to 6 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 6 VDC, 1 to 4 A, with PPHV1 input ; 2. VBUS2: 4.5 to 6 VDC, 1 to 4 A, with PPHV2 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: 4.5 to 6 VDC, 1.39 to 4.91A, with PPHV1 input; 2. VBUS2: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV2 input ; 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.9A, with PPCABLE1 input ; 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.9A, with PPCABLE2 input | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |
| PTC (F60) for docking port used | Littelfuse Inc | 0603L035YR | 6Vdc, 0.35A | IEC/EN 60730- 1, UL 1434 |
| PTC (F60) for docking port used | Bourns Electronics (Taiwan) Ltd | MF-FSMF035 | 6Vdc, 350mA | IEC/EN 60730- 1, UL 1434 |
| Power Distribution Switch (U53) for USB3.0 port used | Texas Instruments Inc | TPS2069, may be followed by other characters that do not impact the safety feature of the device. | Input Voltage: 2.7Vdc - 5.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 3.9 A | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |
| Power Distribution Switch (U53) for USB3.0 port used | Rohm Co Ltd | BD82032FVJ, may be followed by additional suffixes | 2.3 A max., 4.5-5.5 Vdc; Class III. SELV | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |
| Power Distribution Switch (U88) for USB3.0 port used | Texas Instruments Inc | INC SN1702001 | Input Voltage: 4.5Vdc to 5.5Vdc; Output Continuous Rating: 2.5 A; Output Current Limit: 3.1 A | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |
| Power Distribution Switch (U88) for USB3.0 port used | Pericom Semiconductor Corp | PI5USB25xxyZ HEz where xx is 44, 46, 47 or 48 and y is blank or A, ZH is packaging type, E is Pb-free, and z is blank for bulk packaging or X for tape and reel packaging. | Input Voltage: 4.5Vdc to 5.5Vdc; Output Continuous Rating: 30mA-2.5A; Output Current Limit: 100Ma-3.18A | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |
| Power Distribution Switch (U110) for HDMI port used | Texas Instruments Inc | TPS2553 series | Input Voltage: 2.5Vdc to 6.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 1.7 A | IEC 60950-1: 2005+A1+A2; UL Subject 2367 |

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| Componente/ Component | Fabricante/ Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|---|---|---------------------------|---|---|
| Fuse (F61 for SD card slot ; F43 for smart card slot) 1) | Littelfuse Inc | 497 | 32Vdc, 1A | UL 248 |
| Fuse (F61 for SD card slot ; F43 for smart card slot) 1) | Panasonic Corporation, Panasonic Corporation Of North America | ERBRD* | 32Vdc, 1A | UL 248 |
| Sponge for heatsink | Century Creation International Co Ltd | CR-2030B | V-1, min. 1.0mm thickness | UL 94 |
| Sponge for heatsink - glue | Sony | G9000 | -- | IEC 60950-1 |
| Internal plastic barrier for Speaker openings | Chengdu Kanglongxin Plastics Co Ltd | KLX FRPC-1860B | VTM-0, min. 0.3mm thickness | UL 94 |
| Internal plastic barrier for Speaker openings - adhesive tape | Jiangsu Sidike New Materials Science & Technology Co Ltd | DST-(a) | 100 °C | UL 510A |
| ThinkPad WiGig Dock (Optional) | Lenovo Information Products (Shenzhen) Co., Ltd. | W123 | 20Vdc, 2.25A | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2 |
| PCB | Interchangeable | Interchangeable | min. V-1, 105°C min | UL 796 |

Seção 74:

| Componente/Component | Fabricante/ Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|----------------------|--|-----------------------------|---|--|
| Cord set (Optional) | Interchangeable | Interchangeable | --- | NBR 14136, NBR NM 60884-1 |
| AC/DC adapter | Acbel Polytech Inc. (Lenovo) | ADLX45YAC2A | Input: AC 100-240V; 50-60Hz, 1.2A, Class II Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20Vdc/2.25A | IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Acbel Polytech Inc. (Lenovo) | ADLX45YAC3A | Input: AC 100-240V; 50-60Hz, 1.2A, Class I Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20Vdc/2.25A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Chicony Power Technology Co., Ltd (Lenovo) | ADLX45YCC2A | I/P: 1.3A 100-240V~ 50-60Hz Cl.II. DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Chicony Power Technology Co., Ltd (Lenovo) | ADLX45YCC3A | I/P: 1.3A 100-240V~50-60Hz Cl.I. DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Delta Electronics Inc (Lenovo) | ADLX45YDC3A, ADLX45YDC2A | Input: 100-240V~, 1.2A 50-60Hz; Output: 20Vdc/2.25A or 15Vdc/3A or 9Vdc/2A or 5Vdc/2A | IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Lite-On Technology Corporation (Lenovo) | ADLX45YLC2A | Input: AC 100-240V; 1.3A; 50-60Hz; Class II Output: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Lite-On Technology Corporation (Lenovo) | ADLX45YLC3A | Input: AC 100-240V; 1.3A; 50-60Hz; Class I Output: DC 20V; 2.25A,15V; 3A, 9V; 2A, 5V; 2A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |

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|--------------------------------------|--|--|--|--|
| AC/DC adapter | Acbel Polytech Inc. (Lenovo) | ADLX65YAC2A | Input: AC 100-240V; 50-60Hz; 1.8A; Class II Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/3.25A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Acbel Polytech Inc. (Lenovo) | ADLX65YAC3A | Input: AC 100-240V; 50-60Hz; 1.8A; Class I Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/3.25A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Chicony Power Technology Co., Ltd (Lenovo) | ADLX65YCC2A | I/P: 1.8A 100-240V~ 50-60Hz Cl.II. DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Chicony Power Technology Co., Ltd (Lenovo) | ADLX65YCC3A | I/P: 1.8A 100-240V~ 50-60Hz Cl.I. DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Delta Electronics Inc (Lenovo) | ADLX65YDC2A, ADLX65YDC3A | Input: AC 100- 240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Lite-On Technology Corporation (Lenovo) | ADLX65YLC2A | Input: AC 100-240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| AC/DC adapter | Lite-On Technology Corporation (Lenovo) | ADLX65YLC3A | Input: AC 100-240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A | IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1 |
| Plastic Enclosure | Covestro Deutschland AG [PC Resins] | FR3002 + (+ - Material designations may be followed by a six digit numerical code denoting color.) | V-0, min. 1.2 mm thick | UL 94 |
| Plastic Enclosure | Covestro Deutschland AG [PC Resins] | FR3021 + (+ - Material designations may be followed by a six digit numerical code denoting color.) | V-0, min. 1.5 mm thick | UL 94 |
| Plastic Enclosure | Ningbo Lg Yongxing Chemical Co Ltd | LUPOY GN-5001RFD | V-0, min. 1.0 mm thick | UL 94 |
| Plastic Enclosure | Ningbo Lg 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 AF302G, HT700B, XR401B, LI912A, AF303G, AF303S | V-0, min. 1.0 mm thick | UL 94 |
| Mesh for speaker opening | Chengdu Kanglongxin Plastics Co Ltd | H KLX FRPC- 1860, H KLX FRPC-1860B | VTM-0, min. 0.125 mm thickness | UL 94 |
| Mesh for speaker opening | Chengdu Kanglongxin Plastics Co Ltd | KLX FRPC-1860, KLX FRPC-1860B | VTM-0, min. 0.125 mm thickness | UL 94 |
| Adhesive for speaker mesh | 3M | 467 | Complied with Cl. 4.6.5 | IEC 60950-1 |
| Mesh for rear side opening | Interchangeable | Interchangeable | Metal, thickness 0.2 mm | - |
| Adhesive for rear side opening | Jiangshu Sidike Electronics Adhesive Material Co Ltd | DS-5 | Complied with Cl. 4.6.5 | IEC 60950-1 |

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|----------------------|--|--|--|--|
| DC Fan | Asia Vital Components Co., Ltd | BAZA0706R5HY002 | 5Vdc, 0.5A, 3.42CFM min. | EN 60950-1:2006/A2: 2013 |
| DC Fan | Sunonwealth Electric Machine Industry Co. Ltd. | EG50050S1-CCZ Z stands for 30 characters. Each character stands for one of the following signs: 0- 9, A-Z, (,), ., /, - or blank for marketing purpose only | 5Vdc, 450mA, 2.25W, 3.6CFM min. | EN 60950-1: 2006+A11+A1+ A12+A2 |
| DC Fan | Toshiba Home Technology Corp. | M-257C-XX XX: Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits) | 5Vdc, 0.34A, 2.0CFM min. | EN 60950-1:2006/A2: 2013 |
| Li-ion battery pack | Lg Chem, Ltd. (Lenovo) | L17L3P51 | 11.1Vdc, 4050mAh, 45Wh. | IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054 |
| Li-ion battery pack | Simplo Technology Co Ltd (Lenovo) | L17M3P51, L17M3P52 | 11.1Vdc 4.08Ah or 4.12Ah or 45Wh | IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054 |
| Li-ion battery pack | Celxpert Energy Corp (Lenovo) | L17C3P51 | 11.1Vdc, 45Wh, 4120mAh | IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054 |
| LCD panel | AUO | B140HAN04.2 | 14.0" TFT, glass type, min. 0.34 mm thick (with LED back-light module) | IEC 60950-1 |
| LCD panel | Interchangeable | Interchangeable | 14.0" TFT, glass type, min. 0.34 mm thick (with LED back-light module) | IEC 60950-1 |
| SSD (Optional) | Samsung Electronics Co., Ltd. | MZ-V***** | 3.3Vdc, 3.5A max. | IEC 60950-1, UL 60950-1 |
| Alt. SSD (Optional) | SK Hynix Inc. | HFSabcG32MNBdefgh | 5Vdc, 2.0A | EN 60950-1:2006+A11+A1+A12 |
| Alt. SSD (Optional) | Samsung Electronics Co., Ltd. | MZ-5***** | 12Vdc, 0.5A | IEC 60950-1:2005+A1+A2, UL 60950-1, 2 nd |
| Alt. SSD (Optional) | Interchangeable | Interchangeable | 3.3Vdc, 3.5A max. or 5Vdc, 2.0A max. or 12Vdc, 0.5A max. | IEC 60950-1, EN 60950-1, UL 60950-1 |
| HDD (optional) | Seagate Technology | ST series (ST will be followed by suffixes indicating disk size, storage capacity and SELV options) 3.5 series (3.5 will be followed by suffixes indicating storage capacity, SELV options and disk speed) | 5/12Vdc, 1.5A max. | EN 60950-1:2006+A11+A1+A12 |
| HDD (optional) | Interchangeable | Interchangeable | 5/12Vdc, 1.5A max. | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |
| SSHD (optional) | Seagate Technology Inc. | ST3 with additional suffix, 3.5 Series | 5/12Vdc, 1.5 A max./ 1.5 A max. | IEC 60950-1, UL 60950-1 |
| SSHD (optional) | Seagate Technology Inc. | ST9 with additional suffix, 2.5 Series | 5Vdc, 1.5 A max. | IEC 60950-1, UL 60950-1 |
| SSHD (optional) | Interchangeable | Interchangeable | 5/12Vdc, 1.5 A max./ 5Vdc, 1.5 A max. | IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1 |

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|---|---|---|--|--|
| RTC Battery (Lithium) | Panasonic Corporation, Panasonic Corporation Of North America | CR2032* (* 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.) | 3V, max. abnormal charging current 10mA | UL 1642 |
| RTC Battery (Lithium) | Interchangeable | CR2032 | 3V, max. abnormal charging current 10mA | UL 1642 |
| PCB | Interchangeable | Interchangeable | Min. V-1, 105°C min. | UL 796 |
| Speakers (Two provided) | Interchangeable | Interchangeable | 4Ω min., max. 2.5W | IEC 60950-1 |
| Power Distribution Switch (U6401, U0302) for USB 3.1 and USB 2.0 port use | Silergy | SY6288xyyyyy (x=A, B,C,D,E; yyyyy=0-9, A-Z or blank) | I/P: DC 2.5-5.5V O/P: DC 5.5 max., 1.6A max. (x=A, B) DC 5.5 max., 3.7A max. (x=C,D,E) | IEC 60950-1: 2005+A1+A2, UL 2367 |
| Power Distribution Switch (U6402) for USB3.1 port use | Texas Instruments Inc | TPS2543, TPS2544, TPS2545, TPS2546 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 Vdc to 5.5 Vdc Output Continuous Rating: TPS2543, TPS2544, TPS2545, TPS2546 = 2.5 A Output Current Limit: TPS2543, TPS2544, TPS2545, TPS2546 = 3.1 A | IEC 60950-1: 2005+A1+A2, UL 2367 |
| Power Distribution Switch (U4301) for USB-C port use | NXP Semiconductor Taiwan Ltd. | NX5P3290UK | Input Voltage Range: 4.0 Vdc to 5.5Vdc. Current Limit Rating: 3.3 A. | UL 62368-1, IEC 62368- 1(ed.2), EN 62368- 1:2014 |
| PTC Polyswitches (F4701) for HDMI port use | Littelfuse Inc. | 1206L050 | 6Vdc, 0.5A | UL 1434, EN 60730-1 |

Seção 77:

| Componente/Component | Fabricante/Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|--|-------------------------|---------------------------|---|--------------------|
| S01. Connectors and Receptacles (secondary SELV circuits) | Interchangeable | Interchangeable | Copper alloy pins housed in bodies of plastic rated V-2 min | UL94 |
| S01a. Connectors and Receptacles (secondary SELV circuits) | Interchangeable | Interchangeable | Min. 30Vac | UL498, UL1977. |
| S02. Internal Plastic Part Materials | Interchangeable | Interchangeable | Min. V-2 or HF-2 | UL94 |
| S03. Interconnecting Cable (primary) (telecom) | Interchangeable | Interchangeable | Min. 105 degree C, 300 V, max 3.05 m long, jacketed, VW-1 or FT-1 | UL758 |
| S04. Label | Interchangeable | Interchangeable | 70 degree C if max. surface temperature not specified. | UL969 |
| S04a. Label | Interchangeable | Interchangeable | Rating was engraved on the enclosure directly | -- |

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|---|---|--|--|------------------------------------|
| S04b. Label | Interchangeable | Interchangeable | Molded as part of enclosure or label, Hot stamping, laser etching, silk screened or printed by ink. | -- |
| S04c. Label (Laser Carving) | Interchangeable | Interchangeable | Laser carved on enclosure directly. | -- |
| S05. Printed Wiring board | Interchangeable | Interchangeable | V-1 min. | UL796 |
| S05a. Plastic Material of Flexible Printed Wiring | Interchangeable | Interchangeable | V-2 min. or VTM-2 min. when no components mounted on surface | UL94, UL746C, UL746E, UL746F |
| S05b. Flexible Printed Wiring, alternate | Interchangeable | Interchangeable | V-2 min. or VTM-2 min. when no components mounted on surface | UL796, UL796F |
| S05c. Flexible Printed Wiring, alternate | Interchangeable | Interchangeable | V-1 min. or VTM-1 min. when components mounted on surface | UL796, UL796F |
| S06. Wiring, internal secondary ELV/SELV circuits | -- | -- | FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 30 V, 60 degree C. | UL758 |
| S07. Power supply cord (Optional) | Interchangeable | Interchangeable | No. 18 AWG min., Detachable, min. 1.5 m. max. 4.5 m (14.76 ft.) long, Type SVT or SJT or SPT-2 flexible cord, if one end terminated in NEMA 5-15P grounding type attachment plug; if one end terminated in NEMA 6-15P grounding type attachment plug, the other end in an appliance coupler. | UL62, UL498, or UL817 |
| 01.LCD Panel | LG DISPLAY CO LTD | LP133WF2 | 13.3 inch LED TFT | UL 60950-1 |
| 02.LCD Panel (Alternate) | Interchangeable | Interchangeable | 13.3 inch LED TFT | UL 60950-1 |
| 03.Speaker | Interchangeable | Interchangeable | Two provided. Each 4 Ohm, max., 2.5 W | Evaluated in this Application |
| 06.Solid Stare Drive (SSD) (Optional) | INTEL CORP | SSDSA1*, SSDSA2*, SSDSC1*, SSDSC2*, SSDMA*, SSDMC*, SSDPE*, SSDPED*, SSDSCMMW*, SSDSCI*, SSDSCJ*, SSDSCK*, 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 |
| 06a. Solid Stare Drive (SSD) (Optional) | SAMSUNG ELECTRONICS CO LTD | MZ-N***** (Where "" may be any alphanumeric character and/or slash and/or blank.) | 3.3 Vdc | UL 60950-1 |
| 06b. Solid Stare Drive (SSD) (Optional) | Interchangeable | Interchangeable | 3.3 Vdc, 5 Vdc, and/or 12 Vdc | UL 60950-1 |
| 07a. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. / Lenovo | ADLX65YCC3A, ADLX65YCC2A | Input : AC 100-240V; 50-60Hz; 1.8A; Output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V | UL/IEC 60950-1, IEC/UL 62368-1 2nd |
| 07b. AC/DC adapter (Alternate) | Chicony Power Technology Co., Ltd. / Lenovo | ADLX45YCC3A, ADLX45YCC2A | Input : AC 100-240V; 50-60Hz; 1.3A; Output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V | IEC/UL 60950-1, IEC/UL 62368-1 2nd |

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| Componente/Component | Fabricante/Manufacturer | Tipo/Modelo Type/Model | Características técnicas/ Technical data | Norma/ Standard |
|---|---|---|--|------------------------------------|
| 07c. AC/DC adapter (Alternate) | Lite-On Technology Corporation / Lenovo | ADLX45YLC3A, 4X20M26256, 4X20M26265, PA-1450-34YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10E75841, 00HM663, ADLX45YLC2A, PA-1450-35YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10E75842, 00HM664 | Input : AC 100-240V; 1.3A; 50-60Hz; Output: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07d. AC/DC adapter (Alternate) | Lite-On Technology Corporation / Lenovo | ADLX65YLC2A, PA-1650-47YX, (Y=A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), , SA10M13948, 01FR025 ADLX65YLC3A, 4X20M26272, 4X20M26281, PA-1650-46YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10M13945, 01FR024, SA10J20147, 00PC748 | Input : AC 100-240V; 1.8A; 50-60Hz; Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07e. AC/DC adapter (Alternate) | Acbel Polytech Inc. / Lenovo | ADLX45YAC3A, P/N: SA10E75845, FRU P/N:00HM667, , Korea Option P/N:4X20M26256, China Option P/N:4X20M26265 ADLX45YAC2A, P/N: SA10E75846, FRU P/N: 00HM668 | Input : AC 100-240V; 50-60Hz; 1.2A; Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/2.25A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07f. AC/DC adapter (Alternate) | Acbel Polytech Inc. / Lenovo | ADLX65YAC3ALC/ LI PN: SA10M13943, FRU PN: 01FR028, , Korea Option PN: 4X20M26272, China Option PN: 4X20M26281 ADLX65YAC2A, LC / LI PN: SA10M13949, FRU PN: 01FR029 | Input : AC 100-240V; 50-60Hz; 1.8A; Output: DC 5V/2A, 9V/2A, 15V/3A, 20V/3.25A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07g. AC/DC adapter (Alternate) | Delta Electronics, Inc. | ADLX45YDC3A, ADLX45YDC2A | Input: 100-240V~, 1.2A, 50-60Hz; Output: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07h. AC/DC adapter (Alternate) | Delta Electronics, Inc. | ADLX65YDC3A, ADLX65YDC2A, ADP-65UD B | Input: 100-240V~, 1.8A, 50-60Hz; Output: 20Vdc/3.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A | IEC/UL 60950-1, IEC/UL 62368-1 2nd |
| 07i. AC Adapter (Optional) (Alternate) | Interchangeable | Interchangeable | O/P rated: 20 Vdc, 2.25 A. Evaluated for use up to 5000 m and minimum 35 degree C. | IEC/UL 60950-1, IEC/UL62368-1 2nd |
| 07j. AC Adapter (Optional) (Alternate) | Interchangeable | Interchangeable | O/P rated: 20 Vdc, 3.25 A. Evaluated for use up to 5000 m and minimum 35 degree C. | IEC/UL 60950-1, IEC/UL62368-1 2nd |
| 08. Enclosure Opening dimension | -- | -- | See Enclosure ID 4-02 for detail | -- |
| 08-1. Enclosure (LCD Panel cover) | Interchangeable | Interchangeable | Metal alloy, min. 1.0 mm thickness | Evaluated in this Application |
| 09. Enclosure (LCD bezel, uppercase, bottom case) | MITSUBISHI ENGINEERING-PLASTICS CORP | MB1700+ (+) - Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u), "S1" for F20- 54. | V-0, min. 0.75mm thickness, RTI =60degree C | UL 94, UL746C |

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|---|---|---|---|--------------------------------------|
| 09. Enclosure (LCD bezel, uppercase, bottom case) (Alternate) | MITSUBISHI ENGINEERING-PLASTICS CORP | TMB1615+ (+) - Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u), "S1" for F20-54. | V-0, min. 1.0 mm thickness, RTI =85degree C | UL 94, UL746C |
| 09. Enclosure (LCD bezel, uppercase, bottom case) (Alternate) | E I DUPONT DE NEMOURS & CO INC | HTNFR55G50NHLW | V-0, min. 0.4 mm thickness, RTI =65degree C | UL 94, UL746C |
| 09-1. Metallized Coating | Shanghai Weihong Model Plastics Mfr Co Ltd | Sputtering | 0.1-2.0 Mils, | UL746C |
| 10. RTC Battery | Vic-Dawn Enterprise CO., LTD. | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10a. RTC Battery (Alternate) | Jih Hong Technology Co., Ltd | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10b. RTC Battery (Alternate) | Double Best Co Ltd | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10c. RTC Battery (Alternate) | MITSUBISHI ELECTRIC CORP | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10d. RTC Battery (Alternate) | Mitsubishi Electric Home Appliance Co., Ltd | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10e. RTC Battery (Alternate) | PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10f. RTC Battery (Alternate) | SONY ENERGY DEVICES CORP | CR2032 | 3Vdc; max. abnormal charging current 10 mA | UL 1642 |
| 10g. RTC Battery (Alternate) | Interchangeable | CR2032 | 3Vdc; max. abnormal charging current 10 mA Reverse Current Protection provided by diode and 1kohm resistor | UL 1642 |
| 11. Battery pack (Li-ion) | CELPXPERT ENERGY CORP (Lenovo) | L17C3P53 | 11.1Vdc, 45Wh, 4120mAh | IEC62133, IEC/UL 60950-1UL 2054 |
| 11a. Battery pack (Li-ion) (Alternate) | LG CHEM, LTD (Lenovo) | L17L3P55 | 11.1Vdc 4.05Ah/45Wh | IEC62133, IEC/UL 60950-1UL 2054 |
| 11b. Battery pack (Li-ion) (Alternate) | SIMPLOTECHNOLOGY CO LTD (Lenovo) | L17M3P55 | 11.1Vdc 4.08Ah or 4.12Ah or 45Wh | IEC/UL 60950-1, UL 2054, IEC/UL62368 |
| 12. CPU cooling fan | ASIA VITAL COMPONENTS CO.,LTD. | BAZD0606Z5HV, Z be can B or R; V=ABCD where A, B, C, D may be A-Z, 0-9 or -. | 5 Vdc, max. 0.5A, Min. 3.24 CFM | UL 507 |
| 12a. CPU cooling fan (Alternate) | Delta Electronics, Inc. | ND55C48(Y11) the number after Y represents digit, each digit may be A through Z, 0 through 9, "-" or blank. | 5 Vdc, max. 0.45A, Min. 0.58 CFM | UL 507 |
| 12b. CPU fan (Alternate) | Interchangeable | Interchangeable | 5 Vdc, Max. 0.5A, Min. 0.58 CFM | UL 507 |
| 13. Polyswitch for HDMI port | POLYTRONICS TECHNOLOGY CORP | SPR-P110(\$) (\$) May be followed by symbol "-" and up to two alphanumeric characters denoting a resistance range or customer code. | 6 Vdc, Ih= 1.1 A, It= 1.8 A | UL 1434, IEC60730-1:2000 |

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|---|-------------------------|---|--|------------------------------|
| 13a. Polyswitch for HDMI port (Alternate) | LITTELFUSE INC | 0805L110UL, 0805L110UL##, 0805L110UL#***** where ## is Up to two alphanumeric characters denoting packing quantity and packing method, where ***** is Up to five alphanumeric characters denoting a product lead type and customer code. | 6 Vdc, Ih= 1.1 A, It= 1.8 A | UL 1434, IEC60730-1:2000 |
| 13b. Polyswitch for HDMI port (Alternate) | Bourns Inc. | MF-PSMF110X | 6 Vdc, Ih= 1.1 A, It= 2.2 A | UL 1434, IEC60730-1:2000 |
| 13c. Polyswitch for HDMI port (Alternate) | Interchangeable | Interchangeable | 6 Vdc, Ih= max 1.1 A, It= max 2.2 A, CA3 | UL 1434, IEC60730-1:2000 |
| 14. Power Distribution Switch for USB Port | TEXAS INSTRUMENTS INC | TPS2002CDRC, TPS2003CDRC, TPS2060CDGN, TPS2062CD, TPS2066CDGN, TPS2062CDRB-2, TPS2064CDGN-2, TPS2064CDGN, TPS2066CD, TPS2066CDGN-2, TPS2062CDGN | Rated 4.5-5.5 Vdc, output continuous rating: 0.5 - 2.0 A, output current limit: 1.30 - 3.95 A per output channel, Cl.III, SELV, complied with Annex CC | Subject 2367, IEC60950-1 2nd |
| 14a. Power Distribution Switch for USB port (Alternate) | TEXAS INSTRUMENTS INC | TPS2543, TPS2544, TPS2545, TPS2546, maybe followed by Q, may be followed by RTE, may be followed by R or T, may be followed by Q1 | 4.5-5.5 Vdc, Cont. Current: 2.5A, Prot.Current: 3.1A | Subject 2367, IEC60950-1 2nd |
| 14b. Power Distribution Switch for USB port (Alternate) | TEXAS INSTRUMENTS INC | TPS2069. May be followed by other characters that do not impact the safety feature of the device. | 4.5-5.5 Vdc, Cont.Current: 1.5A, Prot.Current: 2.7A | Subject 2367, IEC60950-1 2nd |
| 14c. Power Distribution Switch for USB port (Alternate) | TEXAS INSTRUMENTS INC | TPS2069. May be followed by other characters that do not impact the safety feature of the device.-2 | 4.5-5.5 Vdc, Cont. Current: 1.5A, Prot.Current: 2.86A | Subject 2367, IEC60950-1 2nd |
| 14d. Power Distribution Switch for USB port (Alternate) | ROHM CO LTD | BD82034FVJ, may be followed by additional suffixes | 4.5-5.5 Vdc, Cont.Current: 1.5A, Prot.Current: 2.86A | Subject 2367, IEC60950-1 2nd |

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|---|-----------------------|---|---|------------------------------|
| 14e. Power Distribution Switch for USB port (Alternate) | TEXAS INSTRUMENTS INC | SN1701012, SN1701013, SN1702024, SN1702025, SN1702026, SN1702027, SN1702028, SN1702029, SN1702030, SN1702031, SN1702032, SN1702033, SN1702034, SN1702035, SN1702036, TPS65987D, TPS65987S, TPS65988, may be followed by other characters that do not impact the safety feature of the device. | Models TPS65988, SN1702036, SN1702033, SN1702027, SN1702030, SN1701012 Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A 2. PPHV2: 4.5 to 6 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 6 VDC, 1 to 4 A, with PPHV1 input 2. VBUS2: 4.5 to 6 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: 2.95 to 5.5 Vdc, 0.6 A, with PPCABLE2 input Output Current Limit: 1. VBUS1: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV1 input 2. VBUS2: 4.5 to 6 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 75degree C Models TPS65987D, SN1702035, SN1702032, SN1702026, SN1702029, SN1701013 Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A 2. PPHV2: 4.5 to 6 VDC, 1 to 4 A 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A 4. VIN_3V3: 3.3 VDC Output Continuous Rating: 1. VBUS1: 4.5 to 6 VDC, 1 to 4 A, with PPHV1 input 2. VBUS2: 4.5 to 6 VDC, 1 to 4 A, with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6 A, with PPCABLE1 input Output Current Limit: 1. VBUS1: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV1 input 2. VBUS2: 4.5 to 6 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 | Subject 2367, IEC60950-1 2nd |
|---|-----------------------|---|---|------------------------------|

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|---|--------------------------------------|---|--|------------------------------|
| | | | Ambient: -40 to 75degree C | |
| 14f. Power Distribution Switch for USB port (Alternate) | PERICOM TECHNOLOGY (SHANGHAI) CO LTD | PI5USB2544ZHE, PI5USB2544ZHEX, PI5USB2544AZHE, PI5USB2546ZHE, PI5USB2546ZHEX, PI5USB2546AZHE, PI5USB2546AZHEX, PI5USB2547ZHE, PI5USB2547ZHEX, PI5USB2548ZHE, PI5USB2548ZHEX | 4.5-5.5 Vdc, Cont.Current: 30mA to 2.5A, Prot. Current: 100mA to 3.18A | Subject 2367, IEC60950-1 2nd |
| 15. Internal Plastic Mesh | Mitsubishi Chemical Corporation | HF-01 | 0.04-0.24mm, VTM-0, 105 degree C, Aperature=410um, Line Diameter=80um, thickness=120um, see enclosure ID 4-03 for overall dimension | UL94, UL746C |
| 16. Internal Plastic Mesh | -- | -- | Min. V-0, see enclosure ID4-04 for overall dimension | UL94, UL746C |
| 17. Heatsink | -- | -- | Copper or Copper alloy or Steel, See Enclosure ID4-01 for detail. | -- |
| 18. IR Camera (Optional) | Interchangeable | Interchangeable | PWB: Min. V-1, comply with IEC62471 of Exempt Group | -- |
| 18-1. LED Chip | OSRAM | SFH 4715A | 1.5A, 1.9Vdc, Wave length= 850nm | -- |
| 18a. IR Camera (Alternate) (Optional) | Interchangeable | Interchangeable | PWB: Min. V-1, comply with IEC62471 of Exempt Group | -- |
| Adapter (Alternate) | Chicony Power Technology Co Ltd | ADLX65YCC2D | I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A Class II, 40° C Altitude: 5000 m | - |
| Adapter (Alternate) | Chicony Power Technology Co Ltd | ADLX65YCC3D | I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m | - |
| Adapter (Alternate) | Delta Electronics, Inc. | ADLX65YDC3D, ADLX65YDC2D | I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m | - |
| Adapter (Alternate) | Lite-On Technology Corp | ADLX65YLC2D | I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m | - |
| DC Fan | Toshiba Home Technology Corp. | M-266C-XXXX | 5 Vdc, 0,38 A, 1.9 CFM min. | - |
| DC Fan (Alternate) | Asia Vital Components Co., | BAPA0706R5HV, V= ABCD where A, B, C, D may be A-Z, 0-9 or "-." | 5 Vdc, 0,5 A, 3,42 CFM min. | - |

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| Object/part No. | Manufacturer/ trademark | Type/model | Technical data | Standard (Edition / year) | Mark(s) of conformity(1) |
|---|--|-----------------------------|---|---|--|
| Adapter (For 20Vdc, 2.25A) | CHICONY POWER TECHNOLOGY CO LTD | ADLX45YCC2D | I/P: 100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC 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 | CB by Nemko (NO102327); CB by Demko (DK-73341-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | CHICONY POWER TECHNOLOGY CO LTD | ADLX45YCC3D | I/P:100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC 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 | CB by Nemko (NO102328); CB by Demko (DK-73342-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Chicony Power Technology Co., Ltd | ADLX45YCC2A | I/P: 100-240Vac; 50-60Hz, 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II, 40 oC 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 | CB by Nemko (NO94051); CB by Demko (DK- 64097-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Chicony Power Technology Co., Ltd | ADLX45YCC3A | I/P: 100-240Vac; 50-60Hz, 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I, 40 oC 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 | CB by Nemko (NO94050); CB by Demko (DK- 64093-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Delta Electronics, Inc. | ADLX45YDC3D, ADLX45YDC2D | I/P: 100-240Vac, 1.2A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II with functional earth for model ADLX45YDC3D , Class II for model ADLX45YDC2D , 40 oC 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 | CB by TUVRH (JPTUV- 088399); CB by TUVRH (JPTUV- 088525), UL |

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|---|--------------------------------------|-----------------------------|--|---|--|
| Adapter (For 20Vdc, 2.25A) (Alternate) | Delta Electronics, Inc | ADLX45YDC3A, ADLX45YDC2A | I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC 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 | CB by Demko (DK-57966-UL); CB by Demko (DK-63441-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Lite-On Technology Corporation | ADLX45YLC2D | I/P: 100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC 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 | CB by Demko (DK-74396-UL); CB by Demko (DK-74550-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Lite-On Technology Corporation | ADLX45YLC3D | I/P: 100-240Vac, 1.3A, 50- 60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC 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 | CB by Demko (DK-73964-UL); CB by Demko (DK-73960-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Lite-On Technology Corporation | ADLX45YLC2A | I/P: 100-240Vac; 50-60Hz. 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC 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 | CB by TUVRh (JPTUV- 073708); CB by Demko (DK- 63136-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Lite-On Technology Corporation | ADLX45YLC3A | I/P: 100-240Vac; 50-60Hz. 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I. 40 oC 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 | CB by TUVRh (JPTUV- 073540); CB by Demko (DK- 63151-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Acbel Polytech Inc. | ADLX45YAC2A | I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC 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 | CB by TUVRh (JPTUV- 075061); CB by TUVRh (JPTUV- 080335), UL |

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|---|------------------------------------|-----------------------------|---|---|---|
| Adapter (For 20Vdc, 2.25A) (Alternate) | Acbel Polytech Inc. | ADLX45YAC3A | I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I. 40 oC 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 | CB by TUVRh (JPTUV-075056); CB by TUVRh (JPTUV- 080344), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YCC2D, ADLX45YCC2G | Input: 100-240V~ 1.3A 50-60Hz, Cl. II Output: 2.25A 20Vdc /3A 15Vdc /2A 9Vdc /2A 5Vdc. 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2:2 013, IEC 62368-1: 2014, UL 62368-1 | CB by Nemko (NO102327/A2/ M1), CB by UL (DK-73341-M2-UL), UL |
| Adapter (For 20Vdc, 2.25A) (Alternate) | Chicony Power Technology Co., Ltd. | ADLX45YCC3D; ADLX45YCC3G | I/P: 1.3A 100-240V~ 50-60Hz O/P: 2.25A 20Vdc/3A 15Vdc /2A 9Vdc /2A 5Vdc Cl. I., 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2:2 013, IEC 62368-1: 2014, UL 62368-1 | CB by Nemko (NO102328/A1/ M1), CB by UL (DK- 73342-M1-UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | CHICONY POWER TECHNOLOGY CO LTD | ADLX65YCC2D | I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC 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 | CB by Nemko (NO102312); CB by Demko (DK-73335-UL), UL |
| Adapter (For 20Vdc, 3.25A) (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 Class I, 40 oC 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 | CB by Nemko (NO102313); CB by Demko (DK-73338-UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Chicony Power Technology Co., Ltd | ADLX65YCC2A | I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC 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 | CB by Nemko (NO94246); CB by Demko (DK-63995-UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Chicony Power Technology Co., Ltd | ADLX65YCC3A | I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC 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 | CB by Nemko (NO94247); CB by Demko (DK- 63993-UL), UL |

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|---|--|-----------------------------|---|--|--|
| Adapter (For 20Vdc, 3.25A) (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YSCC2A | I/P: 100-240Vac, 50-60Hz, 1.8 ^o O/P: 5Vdc, 3A / 9Vdc, 3A / 15Vdc, 3A / 20Vdc, 3.25A, Class II, 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 096409), (JPTUV- 096534), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Chicony Power Technology Co., Ltd. | ADLX65YSCC3A | I/P: 100-240Vac, 50- 60Hz 1.8A O/P: 5Vdc, 3A / 9Vdc, 3A / 15Vdc, 3A / 20Vdc, 3.25A, Class I, 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 096407), (JPTUV- 096521), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Delta Electronics, Inc. | ADLX65YDC3D, ADLX65YDC2D | I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II with functional earth for model ADLX45YDC3D, Class II for model ADLX45YDC2D, 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 088370); CB by TUVRh (JPTUV- 088549), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Delta Electronics, Inc | ADLX65YDC2A, ADLX65YDC3A | I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 076078); CB by TUVRh (JPTUV- 076777), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Delta Electronics, Inc. | ADLX65YSDC2A | I/P: 100-240Vac, 1.8A, 50-60Hz O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class II, 40 oC Altitude: 5000m | IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1(ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 097420), (JPTUV- 097518), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Delta Electronics, Inc. | ADLX65YSDC3A | I/P:100-240Vac, 1.8A, 50-60Hz O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class I, 40 oC Altitude: 5000m | IEC 60950-1: 2005/ AMD2: 2013, EN 60950-1: 2006+A11+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1 | CB by TUVRh (JPTUV- 097420), (JPTUV- 097518), UL |

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|---|--------------------------------------|--------------|---|--|---|
| Adapter (For 20Vdc, 3.25A) (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 Class II, 40 oC 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 | CB by Demko (DK-73622-UL); CB by Demko (DK-73627-UL), UL |
| Adapter (For 20Vdc, 3.25A) (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 Class I, 40 oC 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 | CB by Demko (DK-73466-M1- UL); CB by Demko (DK- 73473-M1- UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Lite-On Technology Corporation | ADLX65YLC2A | I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC 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 | CB by TUVRh (JPTUV- 074597-M1); CB by Demko (DK- 63201- UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Lite-On Technology Corporation | ADLX65YLC3A | I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC 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 | CB by TUVRh (JPTUV- 074484-A1); CB by Demko (DK- 63168- UL), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Lite-On Technology Corporation | ADLX65YSLC2A | I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class II, 40 oC 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 | CB by TUVRh (JPTUV- 096377), (JPTUV- 096374), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Lite-On Technology Corporation | ADLX65YSLC3A | I/P: 100-240Vac, 50- 60Hz, 1.8A O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class I, 40 oC 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 | CB by TUVRh (JPTUV- 096300), (JPTUV- 096303), UL |
| Adapter (For 20Vdc, 3.25A) (Alternate) | Acbel Polytech Inc. | ADLX65YAC2A | I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC 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 | CB by TUVRh (JPTUV- 075538-M1); CB by TUVRh (JPTUV- 081062), UL |

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|---|---|--|--|--|--|
| Adapter (For 20Vdc, 3.25A) (Alternate) | Acbel Polytech Inc. (Trademark: Lenovo) | ADLX65YAC3A | I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC 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 | CB by TUVRh (JPTUV- 075533-M1); CB by TUVRh (JPTUV- 081072), UL |
| Enclosure Material for top cover | TORAY INDUSTRIES INC | A695H | V-0, thickness 0.8mm min., 130oC | UL 94, UL 746 | UL |
| Enclosure Material for LCD bezel | Covestro Deutschland AG [PC Resins] | FR3002 + + - Material designations may be followed by a six digit numerical code denoting color. | V-0, thickness 0.9mm min., 70oC | 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, "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., 60oC | UL 94, UL 746 | UL |
| Enclosure Material for top side around keyboard | 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., 60oC | UL 94, UL 746 | UL |
| Enclosure Material for top side around keyboard (Alternate) | Covestro Deutschland AG [PC Resins] | FR3002 + + - Material designations may be followed by a six digit numerical code denoting color. | V-0, thickness 0.9mm min., 70oC | UL 94, UL 746 | UL |
| Enclosure Material for bottom case | E I DUPONT DE NEMOURS & CO INC | HTNFR55G50NH LW (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "ETPV" for ETPV or "SOR" for Soronagrades. | V-0, thickness 0.4 mm min. 65 oC | UL 94, UL 746 | UL |
| Mesh for speaker | Polyshine Technology (Sha nghai) Co Ltd | P(xy)07A | V-0, thickness 0.25 mm, 80 degree C | UL 94, UL 746 | UL |
| Rubber stand | Covestro Deutschland AG [PC Resins] | FR3008 ++ - Material designations may be followed by a six digit numerical code denoting color. | Rated V-1, thickness 1.0 mm min., 60 degree C | UL 94, UL 746 | UL |

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|--|---|---|--|---|--|
| Rubber stand (Alternate) | Covestro Deutschland AG [PC Resins] | FR3006 HF ++ - Material designations may be followed by a six digit numerical code denoting color. | V-1, thickness 1.5 mm min., 60 °C | UL 94, UL 746 | UL |
| Metal sheet for docking-station hook holes | Interchangeable | Interchangeable | Metal material; see Diagrams ID 4-05 for details. | -- | -- |
| LCD panel | InnoLux. | N140HCR-GA2 | 14.0 inch (LED backlight) | -- | Test in the equip. |
| LCD panel (Alternate) | Interchangeable | Interchangeable | 14.0 inch (LED backlight) | -- | Test in the equip. |
| Rechargeable Li-ion Battery Pack | LG CHEM, LTD. | L18L3P73 | 11.55Vdc, 4372mAh / 51Wh | IEC 60950 1:2005/AMD:2013, EN 60950-1:2006/A1:2010/A11:2009/A12:2011/A2:2013, IEC62133:2012, IEC 62368-1:2014, EN 62368-1:2014/A11:2017, UL 2054, UL 60950-1, | CB by Demko (DK-77624-UL) (DK-77588- UL) (DK-77820-UL) UL |
| Rechargeable Li-ion Battery Pack (Alternate) | CELPERT ENERGY CORP | L18C3P72 | 11.52Vdc, Typical 4380mAh / 51Wh, Rated 4250mAh / 49Wh | IEC 60950-1:2005/AMD2:2013, EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011 /A2:2013, IEC 62133:2012, EN 62133:2013, IEC 62368-1: 2014, EN 62368-1:2014/ A11:2017, UL 2054, UL 60950-1 | CB by Demko (DK-76485-M2- UL) (DK-76394-M2- UL) (DK-77304-M2- UL) UL |
| DC Fan | Asia Vital Components Co., Ltd. | BAPA0806R5HV (V = ABCD where A, B, C, D may be A-Z, 0-9 or "-") | 5Vdc, 0.5A, 2.5 CFM min. | UL507, EN 60950-1: 2006 + A11:2009 + A1: 2010 + A12: 2011 + A2: 2013 | UL, TUV |
| DC Fan (Alternate) | Delta Electronics, Inc. | ND75C33XXXXX XXXXXX (X stands for A-Z, 0-9, - or blank (for Marketing purpose only)) | 5Vdc, 0.5A, 3.05 CFM min. | UL507, EN 62368-1: 2014, IEC 62368-1: 2014 | UL, TUV |
| DC Fan (Alternate) | Sunonwealth Electric Machine Industry Co., Ltd. | EG50040S1-CG3Z (X stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (,), -, /, -or blank (for marketing purpose only)) | 5Vdc, 0.45A, 2.8 CFM min. | UL 507, EN 62368-1: 2014, EN 60950-1: 2006+A11+A1+A12+A2 | UL, TUV |
| Motherboard | -- | -- | See below | -- | Tested in the equip. |
| - RTC battery (Lithium type) | PANASONIC CORPORATION OF NORTH AMERICA | CR2032* (* - 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 | 3.0Vdc, Maximum abnormal charging current 10mA | UL 1642 | UL (MH12210) |

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|--|----------------------------------|---|--|-----------|------------------------------------|
| | | such as various mounting tabs, connecting leads or plugs, packaging, etc.) | | | |
| - 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) | MAXELL LTD | 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) | VARTA MICROBATTERY GMBH | CR2032 | 3.0Vdc, Maximum abnormal charging current 10mA | UL 1642 | UL (MH13654) |
| IR LED module | Liteon OPTO Technology (CZ) Ltd. | LTE-R28206S-NE8-XX ("XX" means different customer numbers) | Comply IEC 62471 exempt Group | IEC 62471 | CB by SGS CEBEC (BE-34640) |
| IR LED module (Alternate) | Interchangeable | Interchangeable | Comply IEC 62471 exempt Group | IEC 62471 | UL, CB or Other certification body |

MODELO DE CERTIFICAÇÃO / CERTIFICATION MODEL: 5

VERSÃO DO PROJETO DO PRODUTO / PRODUCT DESIGN VERSION: N/A

DOCUMENTOS / DOCUMENTS:

| Título / Title | Número / Number | Revisão / Revision | Data / Date |
|--|------------------|--------------------|-------------|
| <<Dados da Auditoria / Audit data >> Supplier & Factory Lenovo Tecnologia (Brasil) Ltda | BR2334 | 0 | 2020-01-09 |
| Relatório de ensaio emitido por Nemko / Test report issued by Nemko | 271872 | 0 | 2014-10-24 |
| Relatório de ensaio emitido por Compliance Certification Services INC. / Test report issued by Compliance Certification Services INC. | T140924L10-E | 0 | 2014-10-14 |
| Relatório de ensaio emitido por Universal Standard Service / Test report issued by Universal Standard Service | ASL15031202 | 0 | 2015-04-09 |
| Relatório de ensaio emitido por UL Japan, Inc / Test report issued by UL Japan, Inc. | 10462171S | 0 | 2014-10-08 |
| Relatório de ensaio emitido por UL Japan, Inc / Test report issued by UL Japan, Inc. | E200693-A68-CB-4 | 0 | 2014-09-19 |
| Relatório de ensaio emitido por UL Japan, Inc / Test report issued by UL Japan, Inc. | 10512482S-A | 0 | 2014-10-16 |
| Relatório de ensaio emitido por Universal Standard Service, Inc. / Test report issued by Universal Standard Service, Inc. | ASL15052618 | 0 | 2015-06-02 |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland Taiwan Ltd. | 271814 | 0 | 2014-10-24 |
| Relatório de ensaio emitido por / Test report issued by Cerpass Technology (Suzhou) Co., Ltd. | T150625L01-E | 0 | 2015-06-30 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL15031203 | 0 | 2015-04-09 |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland Taiwan Ltd. | 11038672 001 | 0 | 2014-10-20 |
| Relatório de ensaio emitido por / Test report issued by Cerpass Technology (Suzhou) Co., Ltd. | SECE1504010-A | 0 | 2015-06-29 |

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|---|---------------------|---|------------|
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL15031204 | 0 | 2015-04-09 |
| Relatório de ensaio emitido por / Test report issued by UL Japan, Inc. | E200693-A102-CB-1 | 0 | 2015-08-07 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T160309W07-E | 0 | 2016-04-08 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T151227L13-D | 0 | 2016-01-07 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL15090705 | 0 | 2015-10-14 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 294666 | 0 | 2015-09-23 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T151014L02-D | 0 | 2016-04-23 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T151014L02-E | 0 | 2015-10-23 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL15100728 | 0 | 2015-10-29 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T150818L10-E | 0 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T150818L10-D | 0 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T151206L27-D | 1 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T151206L27-E | 1 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T160303W04-D | 3 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T160303W04-E | 3 | 2015-07-14 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 294356 | 0 | 2015-07-18 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | ASL15091006 | 0 | 2015-09-16 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 316511 | 0 | 2016-09-26 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 318420 | 0 | 2016-10-21 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 321645 | 0 | 2016-12-12 |
| Relatório de ensaio emitido por / Test report issued by BTL Inc. | BTL-EMC-1-1611007 | 0 | 2016-11-16 |
| Relatório de ensaio emitido por / Test report issued by BTL Inc. | BTL-EMC-1-1611007A | 0 | 2017-01-16 |
| Relatório de ensaio emitido por / Test report issued by BTL Inc. | BTL-FICE-1-1611007A | 0 | 2017-01-16 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL16100316 | 0 | 2016-10-21 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 316343 | 0 | 2016-10-19 |
| Relatório de ensaio emitido por / Test report issued by Nemko Taiwan | 318199 | 0 | 2016-10-19 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T161027W08-E | 0 | 2016-11-08 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T161220W01-E | 0 | 2016-12-30 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T161220W01-D | 0 | 2016-12-30 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL16101729 | 0 | 2016-11-03 |
| Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc. | T160628 W02-E | 0 | 2016-07-07 |

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| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL16062826 | 0 | 2016-07-12 |
| Relatório de ensaio emitido por / Test report issued by Intertek Testing Services Taiwan Ltd | 160600401TWN-001 | 0 | 2016-06-29 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL18080741 | 0 | 2018-09-04 |
| Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc. | ASL18110814 | 0 | 2018-11-22 |
| Relatório de ensaios emitido por / Test report issued by Audix Technology Corporation, EMC Department | EM-E180475 | 0 | 2018-10-02 |
| Relatório de ensaio emitido por / Test report issued by UL Japan, Inc. | E302338-A434-CB-1 | 0 | 2017-11-08 |
| Relatório de ensaio emitido por / Test report issued by UL Japan, Inc. | E302338-A434-CB-1 | Am. 1 | 2017-11-13 |
| Relatório de ensaio emitido por / Test report issued by BTL Inc. | BTL-EMC-1-1710114 | 0 | 2017-11-06 |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland Shanghai Co. Ltd | 50112351 001 | 0 | 2017-11-29 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Nemko Taiwan | 340475 | 0 | 2017-10-25 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Audix Technology Corporation | EM-E170985 | 0 | 2017-11-03 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Audix Technology Corporation | EM-F170681 | 0 | 2017-11-03 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Universal Standard Service, Inc. | ASL18041324 | 0 | 2018-04-27 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Nemko Taiwan | 337579 | 0 | 2017-08-17 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name BTL Inc. | BTL-EMC-1-1708193 | 0 | 2017-09-13 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name BTL Inc. | BTL-FICE-1-1708193A | 0 | 2018-04-20 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Universal Standard Service, Inc. | ASL18050454 | 0 | 2018-05-17 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name UL International Demko A/S | E200693-A147-CB-1 | 0 | 2017-10-02 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name AUDIX Technology Corporation | EM-E171020 | 0 | 2017-11-17 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name AUDIX Technology Corporation | EM-F170703 | 0 | 2017-11-17 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name International Standards Laboratory | ISL-18LS0160S | 0 | 2018-10-02 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | R190724 | 0 | 2019-04-01 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | R190725 | 0 | 2019-04-04 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT | V19-020-SERV-01 | 0 | 2019-03-22 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1811T150 | 0 | 2018-12-26 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | ASL19031903 | 0 | 2019-04-03 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL Japan, Inc. | ASL18100307 | 0 | 2018-11-20 |

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| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology Corporation | EM-E180558 | 0 | 2018-10-08 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology Corporation | EM-F180427 | 0 | 2018-10-08 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL International Demko A/S | E302338-A635-CB-1 | 0 | 2018-09-25 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by International Standards Laboratory | ISL-19LS004OS | 0 | 2019-03-12 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | ASL19050325 | 0 | 2019-05-30 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | ASL19082210 | 0 | 2019-08-30 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1906T081 | 0 | 2019-07-18 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Laboratories Taiwan Co., Ltd | E302338-A710-CB-1 | 0 | 2019-07-16 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by International Standards Laboratory | ASL19082210 | 0 | 2019-09-16 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1907T140 | 0 | 2019-08-21 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1811H007 | 0 | 2019-01-30 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL-CCIC Company Limited | E302338-A672-CB-1 | 0 | 2019-01-29 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia | V20-016-SERV-00 | A | 2020-04-02 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | R194727 | 0 | 2020-04-08 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT | V19-151-SERV-02 | 0 | 2020-03-24 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | R194728 | 0 | 2020-05-22 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | ASL19111832 | 0 | 2019-12-25 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia | S20-078-SERV-03 | A | 2020-09-01 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | BTL-EMC-1-2002T020 | 0 | 2020-02-27 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1910H024 | 0 | 2020-04-07 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia | S20-078-SERV-04 | 0 | 2020-11-06 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | E302338-A6128-CB-1 | 0 | 2020-03-18 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | 1909H037 | 0 | 2020-03-27 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia | S20-078-SERV-05 | 0 | 2020-11-06 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | E302338-A6178-CB-1 | 0 | 2020-03-20 |

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| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE | LET-ENE-RE 2395- 8971-02-C - 01.00 (Pt) | 0 | 2021-05-28 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | IBEC210326 | 0 | 2021-06-17 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC | IBEC210327 | 0 | 2021-06-25 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE | LET-ENE-RE 2395- 8743-02-C - 01.00 (Pt) | 0 | 2021-08-06 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | BTL-EMC-1-2001T091 R02 | 0 | 2020-02-27 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology (Wujiang) Co., Ltd., EMC Dept. | C1M1910185 | 0 | 2020-03-20 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Perfectlink International Corp. | CB1191912061A | 0 | 2020-02-14 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE | LET-ENE-RE 2395- 8743-01-C - 01.00 (Pt) | 0 | 2021-08-06 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc. | BTL-EMC-1-2012T046 R00 | 0 | 2021-01-06 |
| Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc. | ASL20101923 | 0 | 2020-12-01 |

OBSERVAÇÕES / OBSERVATIONS:

- A validade deste Certificado está condicionada à realização das avaliações de manutenção e tratamento de possíveis não conformidades de acordo com as orientações da UL do Brasil Certificações e previstas nos procedimentos específicos.**
The validation of this certificate depends on the surveillance inspections performing and Non conformity treatments, according to UL do Brasil Certificações procedures.
- 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
- 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.

Histórico de Revisões / Revisions Description:

| | |
|---|--|
| 15 de Setembro de 2021 / September 15, 2021 | Inclusão dos modelos ThinkPad L14 Gen 1, ThinkPad T14 Gen 2, 20U1, 20U2, 20U5, 20U6, 20W0, 20W1, 20VX, 20VY. |
| 02 de Junho de 2021 / June 02, 2021 | Manutenção 2021. |
| 18 de Novembro de 2020 / November 18, 2020 | Inclusão de modelos ThinkPad T14 Gen 1xxxxx, ThinkPad E14 Gen 2xxxxx, 20UD, 20UE, 20T6, 20T7. |

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| 11 de Setembro de 2020 / September 11, 2020 | Inclusão de modelos ThinkPad T14, 20S0, 20S1, 20S2, 20S3 / Models inclusion ThinkPad T14, 20S0, 20S1, 20S2, 20S3. |
| 23 de Junho de 2020 / June 23, 2020 | Atualização com relatório de ensaio / <i>Update with test report</i> |
| 12 de Maio de 2020 / May 12, 2020 | Emissão inicial com recertificação do certificado UL-BR 15.0348 / <i>Initial Issue with renewal of certificate UL-BR 15.0348</i> |
| A última revisão substitui e cancela as anteriores <i>The last review cancel and substitutes the previous ones</i> | |

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