

# CERTIFICADO DE CONFORMIDADE

CERTIFICATE OF CONFORMITY

## BENS DE INFORMÁTICA INFORMATION TECHNOLOGY EQUIPMENT

**Certificado / Certificate:** UL-BR 22.4043

Emissão / Issue  
**7 de outubro de 2022**  
October 7, 2022

Revisão / Review: 2

Validade / Expiration  
**6 de outubro de 2025**  
October 6, 2025

**Solicitante / Certificate Holder**  
102358

**Lenovo Tecnologia (Brasil) Ltda.**  
Estrada Municipal José Costa de Mesquita, 200  
Módulos 5 a 10, Chácara Alvorada, Indaiatuba – SP - 13337-200, Brasil  
CNPJ - 07.275.920/0001-61

**Fabricante / Manufacturer**  
102358

**Lenovo Tecnologia (Brasil) Ltda.**  
Estrada Municipal José Costa de Mesquita, 200  
Módulos 5 a 10, Chácara Alvorada, Indaiatuba – SP - 13337-200, Brasil  
CNPJ - 07.275.920/0001-61

**Produto Certificado / Certified Product**

**ESTAÇÃO DE TRABALHO / WORKSTATION**

**Modelo de Certificação / Certification Model** 5

**Programa de Certificação ou Portaria /**  
Certification Program or Decree

**Requisitos de Avaliação da Conformidade anexos à Portaria INMETRO**  
**nº 170 de 10 de abril de 2012** | Conformity Assessment Requirements  
attached to INMETRO Ordinance nº 170 as of Apr 10, 2012

**Norma(s) Aplicável(is) / Applicable standards**

IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, CISPR 22:2008, CISPR 32:2012, CISPR 32:2015/COR:2016, CISPR 24:2010+A1:2015, IEC 61000-3-2:2014, IEC 61000-3-3:2013, IEC 61000-4-2:2008, IEC 61000-4-3:2006 +A1:2007 +A2:2010, IEC 61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004

**Identificação UL / UL Identification**

BR2334, Vol. 1, Sec. 83, 94, 107, 109

**Concessão para / Concession for**

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

Bearing the Conformity Identification Seal of the Brazilian System of Evaluation of  
Conformity (SBAC) on the product covered by this certificate.



*Rafael Parada*

**Rafael Parada**  
Program Owner

**UL do Brasil Certificações, organismo acreditado pela Coordenação Geral de**  
**Acreditação do INMETRO – CGCRE, segundo o registro Nº OCP-0029, confirma**  
**que o produto está em conformidade com a(s) Norma(s) e programas ou**  
**Portarias acima descritas.**

UL do Brasil Certificações, Certification Body accredited by Coordenação Geral de  
Acreditação do INMETRO - CGCRE according to the register Nr OCP-0029 confirms  
that the product is in compliance with the standards and certification Programs or  
Decrees above mentioned.

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UL do Brasil Certificações

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

| Marca<br>Trademark | Modelo<br>Model Name  | Descrição<br>Description          |
|--------------------|---|-----------------------------------|
| LENOVO             | ThinkStation P330, ThinkStation P340, ThinkStation P348, ThinkStation P360 Tower, ThinkStation P3 Tower<br>30C5****, 30C6****, 30C9****, 30CY****, 30D0****, 30D3****, 30DH****, 30DJ****, 30DM****, 30EQ****, 30ER****, 30ES****, 30ET****, 30FM****, 30FN****, 30FQ****, 30FR****, 30FS****, 30FT****, 30FU****, 30FV****, 30FW****, 30FX****, 30GR****, 30GS****, 30GT****, 30GU****, 30GV****, 30GW****, 30GX****, 30GY**** onde x pode ser qualquer caractere alfanumérico ou em branco. | ESTAÇÃO DE TRABALHO / WORKSTATION |

### Informações de Ensaio / Test Information:

| Laboratório de Ensaio /<br>Testing Laboratory  | Relatório de Ensaio /<br>Test Report  | Data de Emissão /<br>Issue Date |
|--|---------------------------------------|---------------------------------|
| Relatório de ensaio emitido por / Test report issued by DEKRA Testing & Certification (Suzhou) Co., Ltd. | 1842057E-MME-CE-P01V01                | 2018-05-02                      |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland                                    | 50115737 001                          | 2018-04-18                      |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland                                    | 50115737 002                          | 2018-04-18                      |
| Relatório de ensaio emitido por / Test report issued by IBEC   | IBEC194731                            | 2020-04-09                      |
| Relatório de ensaio emitido por / Test report issued by IBEC   | IBEC194732                            | 2020-05-14                      |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland Taiwan Ltd.                        | 50326219 001                          | 2020-02-06                      |
| Relatório de ensaio emitido por / Test report issued by DEKRA Testing & Certification                    | 19C2163E-MME-CE-P01V01                | 2020-01-17                      |
| Relatório de ensaio emitido por / Test report issued by IBEC   | IBEC210330                            | 2021-07-05                      |
| Relatório de ensaio emitido por / Test report issued by IBEC   | IBEC210331                            | 2021-07-26                      |
| Relatório de ensaio emitido por / Test report issued by DEKRA Testing & Certification (Suzhou) Co., Ltd. | 2130934R-MME-CE-P01V01                | 2021-04-28                      |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland                                    | 60950 20210519                        | 2021-05-19                      |
| Relatório de ensaio emitido por / Test report issued by TÜV Rheinland (China) Ltd.                       | CN21126J 001                          | 2021-04-22                      |
| Relatório de ensaio emitido por / Test report issued by BTL Inc.   | BTL-EMC-1-2111C069                    | 2021-11-24                      |
| Relatório de ensaio emitido por / Test report issued by UL-CCIC Company Limited                          | E307995-A6133-CB-1                    | 2021-12-28                      |
| Relatório de ensaio emitido por / Test report issued by Instituto de Pesquisas Eldorado                  | LET-EMC-RE 2395-10414-02-C - 01_00 Pt | 2022-05-05                      |
| Relatório de ensaio emitido por / Test report issued by Instituto de Pesquisas Eldorado                  | LET-ID 2395-10414-02 - 01_00 Pt       | 2022-05-06                      |

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| Relatório de ensaio emitido por / Test report issued by Instituto de Pesquisas Eldorado                    | LET-SEG-RE 2395-10414-02-C - 01.00 Pt | 2022-05-05 |
| Relatório de ensaio emitido por / Test report issued by UL-CCIC Company Limited                            | E307995-A6189-CB-1                    | 2023-02-28 |
| Relatório de ensaio emitido por / Test report issued by DEKRA Testing and Certification (Suzhou) Co., Ltd. | 22C0195R-MME-CE-P01V01                | 2023-02-02 |

### Informações de Auditoria(s) / Audit(s) Information:

| Relatório(s) de Auditoria(s) / Audit(s) Report(s) | Data da Realização / Perform Date |
|---|-----------------------------------|
| Tratamento de Reclamações / Complaint Handling    | 28 de Abril de 2023               |
| Fabricante / Manufacturer                         |                                   |

### Informações Adicionais / Additional Information:

|  |
|--|
| Lista de componentes críticos, ver em anexo / List of critical components, see attachment. |
|--|

### 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. Para verificação da condição atualizada de regularidade deste Certificado de Conformidade deve ser consultado o banco de dados de produtos e serviços certificados do Inmetro.**  
*The validation of this certificate depends on the surveillance inspections performing and Non conformity treatments, according to UL do Brasil Certificações procedures. To verify the updated condition of regularity of this Conformity Certificate shall be consulted the certified products and services Inmetro database.*
- 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.*
- Esta autorização está vinculada a um contrato e para o escopo acima citado.**  
*This license is related to a commercial proposal and to the scope above cited.*

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### Histórico de Revisões / Revisions History:

| Revisão / Review   | Data / Date                                    | Descrição da Revisão / Revision Description:   |
|--|--|--|
| 2  | 10 de julho de 2023 /<br>July 10, 2023         | Inclusão dos modelos ThinkStation P3 Tower, 30GR*****, 30GS*****, 30GT*****, 30GU*****, 30GV*****, 30GW*****, 30GX*****, / Inclusion of ThinkStation P3 Tower models, 30GR*****, 30GS*****, 30GT*****, 30GU*****, 30GV*****, 30GW*****, 30GX*****, / |
| 1  | 14 de fevereiro de 2023 /<br>February 14, 2023 | Adequação de figuras no certificado (Solicitante e Fabricante) /<br>Adequacy of figures on the certificate (Applicant and Manufacturer)  |
| 0  | 07 de outubro de 2022 /<br>October 07, 2022    | Emissão inicial com recertificação do certificado ULBR 19.1474 /<br>Initial Issue with renewal of certificate UL-BR 19.1474  |
| A última revisão substitui e cancela as anteriores<br>The last review replaces and cancels the previous ones |  |  |

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### Anexo I / Attachment I:

100-240 Vac, 4 A, 50-60 Hz  
100-240 Vac, 6 A, 50-60 Hz  
100-240 Vac, 7 A, 50-60 Hz  
100-240 Vac, 10 A, 50-60 Hz  
100-240 Vac, 15-8 A, 50-60 Hz

| Componente/<br>Component                 | Fabricante/<br>Manufacturer                                   | Tipo/Modelo<br>Type/Model | Características técnicas/<br>Technical data | Norma/<br>Standard                                    | Marca de<br>conformidade/<br>Mark(s) of<br>conformity |
|--|---|---------------------------|---|---|---|
| Metal Enclosure                          | Interchangeable   | Interchangeable           | Overall                                     | IEC/EM 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1 | --  |
| Plastic Front Panel                      | Dongguan Hinglong Plastic Technology Co. Ltd                  | HL-ABS-PCR35/65/85        | HB, min. 1.6 mm thickness                   | UL94 UL 746C  | UL  |
| PCB                                      | Palwonn Electronics (Shenzhen) Co. Ltd                        | M3                        | V-0, min. 130 °C                            | UL796, UL94, UL764A, UL60950-1                        | UL E230435  |
| PCB (alternative)                        | Chuan Yi Computer (Shenzhen) Co. Ltd                          | CM-4                      | V-0, min. 130 °C                            | UL796, UL94, UL764A, UL60950-1                        | UL E162264  |
| PCB (alternative)                        | Interchangeable   | Interchangeable           | V-0 or better, min. 130° C                  | UL796, UL94, UL764A, UL60950-1                        | UL approved   |
| DC Fan (For CPU)                         | Foxconn Technology Co., Ltd                                   | PVA080G12Q                | 12 Vdc, 0.65A, 66.09CFM                     | EN60950-1, UL 507, CSA-C22.2 No. 113                  | UL E231557, cUL E231557                               |
| DC Fan (For CPU) (Alternative)           | Delta Electronics Inc.  | AFB0812SH                 | 12 Vdc, 0.51A, 64.5CFM                      | IEC/EN 60950-1, UL 507, CSA-C22.2 No. 113             | VDE 001764, UL E132003, cUL E132003                   |
| DC Fan (for System Front) (optional)     | Foxconn Technology Co., Ltd.                                  | PVA080G12Q                | DC 12V, 0.65 A, 66.09 CFM min               | EN60950-1 UL 507                                      | TUV UL  |
| DC Fan (for System Front) (optional)     | Interchangeable   | Interchangeable           | DC 12V, 0.70 A max, 64.44 CFM min           | DC 12V, 0.50A max, 53.05 CFM min                      | TUV UL  |
| Hard Disk Drive (optional)               | Western Digital Technologies INc                              | WD5000AAKX                | DC 5 V/12 V, 1.0 A/0.95 A max.              | UL 60950-1 CAN/CSA-C22                                | TUV UL  |
| Hard Disk Drive (optional) (alternative) | Interchangeable   | Interchangeable           | DC 5 V/12 V, 3.0 A/3.0 A max.               | UL 60950-1 CAN/CSA-C22                                | UL and CSA approved                                   |
| Lithium Battery for RTC                  | Panasonic Corporation, Panasonic Corporation of North America | CR2032                    | DC 3V, max. adnormal charging current 10mA  | UL 1642   | UL MH12568  |
| Lithium Battery for RTC (alternative)    | Maxell, Ltd   | Interchangeable           | Rated 12Vdc, 0.32A Max; Min.45.50CFM        | EN60950-1 UL 507                                      | VDE, TUV or UL  |
| Graphics card                            | NVIDIA CORP   | PG212                     | DC 12V; 3,3 V; Class III                    | UL 60950-1, CAN/CSA-C22.2 No. 60950-1                 | UL E204896, cUL E204896                               |
| Graphic Card (Alternative)               | NVIDIA CORP   | P2014                     | DC 12V; 3,3 V; Class III                    | UL 60950-1, CAN/CSA-C22.2 No. 60950-1                 | UL E204896, cUL E204896                               |
| General Card (Alternative)               | NVIDIA CORP   | P2018                     | DC 12V; 3,3 V; Class III                    | UL 60950-1, CAN/CSA-C22.2 No. 60950-1                 | UL E204896, cUL E204896                               |
| Metal enclosure                          | Interchangeable   | Interchangeable           | Overall                                     | UL 60950-1, IEC/EN 60950-1                            | Test with equipment                                   |

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|-------------------------------------|---------------------------------------|--|---|---|---|
|                                     |                                       |  | 170.0mm x 299.2mm x 370.0mm<br>, Min<br>0.6 mm thickness  |   |   |
| Plastic Front Panel                 | KINGFA SCI & TECH (USA), INC          | ABS  | HB or better, min. 0.7 mm thickness.  | UL 94, UL 764C  | UL E171666  |
| Plastic Front Panel (Alternative)   | COVESTRO DEUTSCHLAND AG               | PC   | HB or better, min. 0.7 mm thickness.  | UL 94, UL 764C  | UL E41613   |
| Plastic Front Panel (Alternative)   | GINAR TECHNOLOGY CO LTD               | PA66   | HB or better, min. 0.7 mm thickness.  | UL 94, UL 764C  | UL E154352  |
| Plastic Front Panel (Alternative)   | Interchangeable                       | Interchangeable  | HB or better, min. 0.7 mm thickness.  | UL94, UL746C  | UL approved   |
| PCB                                 | PALWONN ELECTRONICS (SHENZHEN) CO LTD | M3   | V-0, 130 °C   | UL796, UL94, UL764A                                   | UL E230435  |
| PCB (Alternative)                   | CHUAN YI COMPUTER (SHENZHEN) CO LTD   | CM-4   | V-0, 130 °C   | UL796, UL94, UL764A                                   | UL E162264  |
| PCB (Alternative)                   | Interchangeable                       | Interchangeable  | V-0 or better, , min.130 °C   | UL796, UL94, UL764A                                   | UL approved   |
| Built-in Power Supply               | Acbel Polytech Inc.                   | PCK023   | Input: AC100-240V, 50/60Hz, 5.0A; Output: DC+12V, 25A, DC-12V, 0.2A, +12V:Max.300W<br>;-12V:Max.2.4W;<br>Total Max.300W Altitude: up to 5000m               | IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1 | CB Cert. No.: JPTUV-101723, UL E131875, cUL E131875   |
| Built-in Power Supply (Alternative) | Acbel Polytech Inc.                   | PCK010   | Input: AC100-240V, 50/60Hz, 7.0A<br>Output: DC+12V1/35A; DC+12V2/30A; DC -12V/0.2A; Max.500W; +12V1 & +12V2: Max.500W; -12V:Max.2.4W; Altitude: up to 5000m | IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1 | CB Cert. No.: JPTUV-101665, UL E131875, cUL E131875   |
| Built-in Power Supply (Alternative) | SHENZHEN HUNTKEY ELECTRIC CO LTD      | HK600-11PP xy("x" =A to Z or blank, "y" = 0 to 9 or blank, for marketing purpose only) | Input: AC100- 240V, 50/60Hz, 7A Output: DC+12V1/35A; DC+12V2/30A; DC -12V/0.2A; Max.500W; +12V1 & +12V2: Max.500W; -12V:Max.2.4W; Altitude: up to 5000m     | IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1 | CB Cert. No.: DK-88996-UL, UL E181356; cUL E181356    |
| Graphics card                       | NVIDIA CORP                           | PG160  | I/P: DC 3.3/5/12 V dc (optional), class III, 125 W  | IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1 | UL Cert. No.: DK-61424-A3-UL, UL E204896, cUL E204896 |

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|---|------------------------------------|--|--|--|--|
| Graphics card<br>(Alternative)                      | NVIDIA CORP                        | PG178  | I/P: DC 3.3/5/12<br>V dc (optional), class III,<br>max. 47 W | IEC/EN 60950-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | UL Cert. No.: DK-<br>81642-M1-<br>UL ,<br>UL E204896, cUL<br>E204896 |
| Graphics card<br>(Alternative)                      | NVIDIA CORP                        | PG180  | I/P: DC 3.3/5/12<br>V dc (optional), class III, 230 W        | IEC/EN 60950-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | UL Cert. No.:<br>DK-78186-UL, UL<br>E204896, cUL<br>E204896          |
| Graphics card<br>(Alternative)                      | NVIDIA CORP                        | PG420  | I/P: DC 3.3/5/12<br>V dc (optional), class III, 75 W         | IEC/EN 62368-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | UL Cert. No.: DK-<br>83069-UL, UL<br>E204896,<br>cUL E204896         |
| Graphics card<br>(Alternative)                      | LENOVO<br>(BEIJING) LTD            | RTX 2060   | I/P: DC 3.3V,<br>12V (optional), class III, 170 W            | IEC/EN 60950-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | TUV Cert. No.:<br>JPTUV-092913-<br>M1,UL E307995,<br>cUL E307995     |
| Graphics card<br>(Alternative)                      | Micro-Star<br>International Co Ltd | V375   | I/P: DC 3.3V,<br>12V (optional), class III, 120 W            | IEC/EN 60950-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | UL Cert. No.:<br>DK-80752-UL, UL<br>E203413, cUL<br>E203413          |
| Graphics card<br>(Alternative)                      | Interchangeabl e                   | Interchangeable  | DC 3.3V, DC12V<br>(optional); Class III, max. 230W           | IEC/EN 60950-1,<br>UL 60950-1, CAN/CSA-C22.2<br>No. 60950-1  | TUV, UL and CSA<br>approved  |
| Optical Device Drive<br>(Optional)                  | Hitachi-LG Data<br>Storage inc.,   | CH20N  | Class 1 laser, DC 5/12 V, 1.5/1.5<br>A.                      | IEC/EN 60825-1   | Intertek S Certificate:<br>911330                                    |
| Optical Device Drive<br>(Optional)<br>(Alternative) | Interchangeabl e                   | Interchangeable  | Class 1 laser, DC 5/12 V, 3.0/3.0<br>A max.                  | IEC/EN 60825-1   | UL, EU<br>Certification approved                                     |
| Hard Disk Drive<br>(Optional)                       | Western Digital<br>Technologie Inc | WD5000AAKX   | DC 5 V/12 V, 1.0 A/0.95 A<br>max.                            | UL 60950-1,<br>CAN/CSA-C22.2 No. 60950-1   | UL E101559, cUL<br>E101559   |
| Hard Disk Drive<br>(Optional) (Alternative)         | Interchangeable                    | Interchangeable  | DC 5 V/12 V, 3.0<br>A/3.0 A max.                             | UL 60950-1,<br>CAN/CSA-C22.2 No. 60950-1   | UL and CSA<br>approved   |
| Solid State Drive<br>(Optional)                     | Samsung Eletronic<br>Co., Ltd.     | MZ-W***** (* is 0-<br>9, A-Z or blank or<br>slash or dash. 1st *<br>means Line-up 2nd*<br>means SSD controller<br>3rd, 4th, 5th * means<br>SSD capacity 6th *<br>means customized<br>design 7th~10th *<br>means customer<br>list reference ) | DC 12V, 1.85A<br>or 2.5A                                     | IEC/EN 60950-1,<br>UL 60950-1, UL60950-21,<br>CAN/CSA C22.2 No. 60950-<br>1, CAN/CSA C22.2 No.<br>60950-21 | UL CB Cert. No.: DK-<br>57680-UL, UL<br>E149091,<br>cUL E149091      |
| Solid State Drive<br>(Optional) (Alternative)       | Interchangeable                    | Interchangeable  | DC 12V, 2.5A<br>max.   | UL 60950-1, UL60950-21,<br>CAN/CSA C22.2 No. 60950-<br>1, CAN/CSA C22.2 No.<br>60950-21                    | UL and CSA<br>approved   |
| DC Fan (For CPU)                                    | ASIA VITAL<br>COMPONENTS CO<br>LTD | BAZD0925R2UP<br>009  | 12Vdc, 0.9A,<br>26.09CFM                                     | EN 60950-1,<br>UL 507,<br>CSA-C22.2 No. 113  | TUVSUD Cert.<br>No.:<br>B150225730477,<br>UL E158191,<br>cUL E158191 |
| DC Fan (For CPU)<br>(Alternative)                   | ASIA VITAL                         | DS08025R12UP<br>227  | 12Vdc, 0.7A,<br>64.44CFM                                     | EN 60950-1,<br>UL 507,   | TUVSUD Cert.   |

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|--|--|--------------------|--|---|--|
|  | COMPONENTS CO LTD                                  |                    |  | CSA-C22.2 No. 113                         | No.: B150225730477, UL E158191, cUL E158191              |
| DC Fan (For CPU) (Alternative)               | DELTA ELECTRONICS INC                              | AFB0812SH-9N07AGJ  | 12Vdc, 0.51A, 64.5CFM                            | UL 507, CSA-C22.2 No. 113                 | UL E132003, cUL E132003                                  |
| DC Fan (For CPU) (Alternative)               | Everflow Precision Electronic (dong Guan) Co Ltd   | FB8025SUFA7 3bH    | 12Vdc, 0.6A, 61.59CFM                            | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50091668 0009, UL E236658, cUL E236658  |
| DC Fan (For CPU) (Alternative)               | SHENZHEN DONGWEIFEN G ELECTRONIC TECHNOLOGY CO LTD | EFH-08E12W-GP01    | 12Vdc, 0.7A, 64.9CFM                             | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50215119 0009, UL E305197, cUL E305197  |
| DC Fan (For CPU) (Alternative)               | Interchangeable                                    | Interchangeable    | DC 12V, 0.9A max.26.09CFM min.                   | IEC/EN 60950-1, UL 507, CSA-C22.2 No. 113 | VDE/ENEC/ TUV , UL and CSA approved                      |
| DC Fan (For System) (Optional)               | Foxconn  | PVA092G12H- P07-AS | DC 12V, 0.4A, 56CFM                              | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50052957 0017, UL E231557, cUL E231557  |
| DC Fan (For System) (Optional) (Alternative) | Foxconn  | PVA080G12Q-P66-AE  | 12Vdc, 0.65A, 66.09CFM                           | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50168494 0027, UL E231557, cUL E231557  |
| DC Fan (For System) (Optional) (Alternative) | Foxconn  | PVA080G12Q-P01-AD3 | 12Vdc, 0.65A, 66.09CFM                           | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50168494 0027, UL E231557, cUL E231557  |
| DC Fan (For System) (Optional) (Alternative) | ASIA VITAL COMPONENTS CO LTD                       | DS09225R12HP 298   | 12Vdc, 0.41A, 58.04CFM                           | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVSUD Cert. No.: B150225730476, UL E158191, cUL E158191 |
| DC Fan (For System) (Optional) (Alternative) | ASIA VITAL COMPONENTS CO LTD                       | DS08025R12UP 242-1 | 12Vdc, 0.45A, 64.44CFM                           | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVSUD Cert. No.: B120225730277, UL E158191, cUL E158191 |
| DC Fan (For System) (Optional) (Alternative) | SHENZHEN DONGWEIFEN G ELECTRONIC TECHNOLOGY CO LTD | EFH-08E12W-GP01    | 12Vdc, 0.7A, 64.9CFM                             | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50215119 0009, UL E305197, cUL E305197  |
| DC Fan (For System) (Optional) (Alternative) | SHENZHEN DONGWEIFEN G ELECTRONIC TECHNOLOGY CO LTD | EFH-09E12D-EP01    | 12Vdc, 0.55A, 60.79CFM                           | EN 60950-1, UL 507, CSA-C22.2 No. 113     | TUVR Cert. No.: R50268110 0001, UL E305197, cUL E305197  |
| DC Fan (For System) (Optional) (Alternative) | Interchangeable                                    | Interchangeable    | DC 12V, 0.7A max.,58.04CFM min.                  | IEC/EN 60950-1, UL 507, CSA-C22.2 No. 113 | VDE/ENEC/ TUV UL and CSA approved                        |
| Poly Switch (F1, F2, F3)                     | BOURNS INC   | MF-USMF110         | DC 6V, holding current: 1.1A, trip current: 2.2A | UL1434                                    | UL E174545   |

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|--|-------------------------------|--|--|--|---|
| Poly Switch (F5)                                     | LITTELFUSE INC                | 1206L300SLTH   | DC 6V, holding current: 3A, trip current: 6A                 | UL1434   | UL E183209  |
| USB Power Switch (U51, U52)                          | UPI SEMICONDUCTOR CORP        | UP7549TMA5-25  | DC 2.5 to 5.5V, cont. current: 2.0A, prot. current: 3.1-5.0A | EN 60950-1, UL 2367  | TUV Cert. No.: R50254704 0001 UL E316940  |
| USB Power Switch (U23, U30, U33, U57, U59, U71, U74) | Niko Semiconductor CO., LTD.  | GS7612S5MN   | DC 2.7 to 5.5V, cont. current: 2.0A, prot. current: 5.0A     | EN 60950-1, UL 2367  | TUV Cert. No.: R50291589 0001 UL E360303  |
| USB Power Switch (U197)                              | RICHTEK TECHNOLOGY CORP       | RT9742AGJ5F  | DC 2.7 to 6 V, cont. current: 2.0A, Prot. Current: 4.5A      | IEC/EN 60950-1, UL 2367  | Cert. No.: NO87949 UL E219878   |
| Lithium Battery for RTC                              | PANASONIC                     | CR2032   | DC 3V, max. abnormal charging current 10 mA                  | UL 1642<br>Applicable parts of IEC/EN 60950-1  | UL MH12210  |
| Lithium Battery for RTC (Alternative)                | VIC-DAWN ENTERPRISE CO LTD    | CR2032   | DC 3V, max. abnormal charging current 10 mA                  | UL 1642  | UL MH20550  |
| Graphics card  | NVIDIA CORP                   | PG172  | I/P: DC 3.3/12 V dc (optional), class III, max. 50 W         | IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1  | UL Cert. No.: DK-92219-UL, UL E204896, cUL E204896  |
| Graphics card (Alternative)                          | Lenovo (Beijing) Ltd          | BD3K88   | I/P: DC 3.3/12 V dc (optional), class III, 170W              | EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1  | TUV Mark No. R50500122 0001, UL E307995, cUL E307995  |
| Graphics card (Alternative)                          | Advanced Micro devices Inc    | D015   | DC 12V; 3.3V; Class III; 55W                                 | IEC/EN 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1  | UL Cert. No.: CA-10446-UL, UL E154871, cUL E154871  |
| Graphics card (Alternative)                          | Interchangeable               | Interchangeable  | I/P: DC 3.3/12 V dc (optional), class III, max. 170W         | IEC/EN 60950-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1 | TUV, UL and CSA approved  |
| Optical device drive (Optional)                      | Hitachi-LG Data Storage inc., | CH3**, CH***S3*, BH4**, BH***S4*, CH***S4*, CH4**, BH5**, BH***S5*, BW-1**1ST***, BC-1*D2*T, BC-1**1ST***, BW-1*D1*-, BW-1*D1*T, BW-1*D2*T, BH6**<br>(The symbol "**" can be any number 0-9 or any alphanumeric character) | Class 1 laser, DC 5/12 V, 1.5/2.0 A.                         | IEC/EN 62368-1, IEC/EN 60825-1, Code of Federal Regulations (CFR), Title 21, Part 1040       | Intertek Certificate: SG ITS-20381, Refer to report no. 170100050SEL-001<br>FDA Registration No.: 1830330-001 |
| Optical device drive (Optional)                      | Interchangeable               | Interchangeable  | Class 1 laser, DC 5/12 V, 1.5/2.0 A max.                     | IEC/EN 60825-1, Code of Federal Regulations (CFR), Title 21,                                 | UL, EU Certification approved, FDA Certification  |

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|---|-----------------------------------|--|---|--|---|
|   |                                   |  |   | Part 1040  | approved  |
| Hard Disk Drive (optional)                        | Seagate technology LLC            | STT003   | DC 5 V/12 V, 3.0 A/3.0 A max.   | IEC 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1                                       | Ref. Certif.No. DE3-502363, UL E145123, cUL E145123     |
| Hard Disk Drive (optional) (Alternative)          | Interchangeable                   | Interchangeable  | DC 5 V/12 V, 3.0 A/3.0 A max.   | EC 62368-1, UL 60950-1, CAN/CSA-C22.2 No. 60950-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1 | TUV, UL and CSA approved                                |
| Solid State Drive (Optional)                      | Western Digital Technologies Inc. | SDyyxyxy-xxxxxyxyxy, Wyyxxxxxyxyxy, Hyyxyxyxyxyx, Syxyxyxz, Tyxyx, UCxyxyxy, Hxyxyxy, GRxxx, yyx, Wyyxyxyxyxyx (x,y = 0-9, A-Z or blank) | DC 12V, 1.85A or 2.5A   | IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1                                    | Ref. Certif.No. US-TUVR-011943, UL E319334, cUL E319334 |
| Solid State Drive (Optional) (Alternative)        | Interchangeable                   | Interchangeable  | DC 12V, 2.5A max.   | IEC/EN 62368-1, UL 62368-1, CAN/CSA-C22.2 No. 62368-1                                    | TUV, UL and CSA approved                                |
| 01. Power Supply Cord (Optional)                  | Interchangeable                   | Interchangeable  | Detachable, Min.1.5m, Max. 4.5m long, 16 AWG Min. Type SVT or SJT or SPT-2 or NISPT-2 flexible cord, rated Min. 125V, if one end terminated in NEMA 5-15P; rated Min. 250V, if one end terminated in NEMA 6-15P, the other end in an appliance coupler. | UL 817   | UL, --  |
| 02. Interconnecting Cable (Optional)              | Interchangeable                   | Interchangeable  | Minimum 80 degree C, 30V Minimum, Max. 3.05m long, rated VW-1 or FT-1 or better.  | UL 758   | UL, --  |
| 02a. Interconnecting Cable (Optional) (Alternate) | Interchangeable                   | Interchangeable  | Suitable for external use. Type CMP, CMR, CMG, or CM. For type CMX, or CMUC, maximum 3.05m long.  | UL 444   | UL, --  |
| 02b. Interconnecting Cable (optional) (Alternate) | Interchangeable                   | Interchangeable  | With RJ-45 type connector.  | UL1863   | UL, --  |
| 03. Label   | Interchangeable                   | Interchangeable  | Min. 60 degree C, suitable for the surface supplied.  | UL 969   | UL, --  |
| 03a.Label (Alternate)                             | ---                               | ---  | Molded as part of enclosure, Hot stamping, laser etching or silk screened.  | ----   | ----, ----  |
| 04. Wiring, Internal (Secondary SELV circuits)    | Interchangeable                   | Interchangeable  | marked VW-1 or FT-1; 80 degree C, Min. 30Vdc.   | UL 758   | UL, --  |

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|--|-----------------------------------|--|---|---|---|
| 05. Connectors and Receptacles (Secondary SELV circuits)                             | Interchangeable                   | Interchangeable  | Metal/ Copper alloy pins housed in bodies of plastic rated Min. V-2.  | UL 94, UL 746C  | UL , --   |
| 05a. Connectors and Receptacles ( Pluggable I/O Connector/SELV circuits) (Alternate) | Interchangeable                   | Interchangeable  | Metal/ Copper alloy pins housed in bodies of plastic rated V-1 minimum.   | UL 94, UL 746C  | UL , --   |
| 05b. Connectors and Receptacles (Secondary SELV circuits) (Alternate)                | Interchangeable                   | Interchangeable  | Plastic rated Min. V-2.   | UL498, UL 1977  | UL , --   |
| 05c. Connectors and Receptacles (Secondary SELV circuits) (Alternate)                | ---                               | ---  | Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm <sup>3</sup> ) are mounted on V-1 class material.   | ---   | ---,---   |
| 06. Internal Plastic Parts Materials   | Interchangeable                   | Interchangeable  | V-2, VTM-2 or HF-2 minimum.   | UL 94, UL 746C  | UL , --   |
| 06a. Internal Plastic Parts Materials (Optional) (Alternate)                         | ---                               | ----   | Flammability level is ignored, when small parts (Max. 4g or Max. 1750mm <sup>3</sup> ) are mounted on V-1 class material.   | ----  | ---,----  |
| 07. Insulating Tubing/ Sleeve  | Interchangeable                   | Interchangeable  | marked VW-1 or FT-1.  | UL224   | UL , --   |
| 08. Printed Wiring Board(PWB)  | Interchangeable                   | Interchangeable  | Min. V-1, Min. 105 degree C   | UL796   | UL , --   |
| 09. Enclosure  | ---                               | ---  | Metal, Min. 0.6mm thick. See enclosure 4-01 for detail.   | --  | --, ---   |
| 09-01. Enclosure (Front Bezel &Rear side)  | Interchangeable                   | Interchangeable  | HB or better.   | UL 94   | UL , --   |
| 10. Switching Power Supply   | SHENZHEN HUNTKEY ELECTRIC CO LTD. | HK600-11PPxy ("x" =A to Z or blank, "y" = 0 to 9 or blank, for marketing purpose only) | AC INPUT: 100-240Vac, 50/60Hz, 7A<br>DC OUTPUT: +12V1, 35A; +12V2, 30A; -12V, 0.2A; +12V1 & +12V2 OUTPUT NOT EXCEED 500W; -12V OUTPUT NOT EXCEED 2.4W; OUTPUT WATT:500W; Altitude 5000m; Tma 50 degree C. | UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 | UL , CB by UL (DK-89004-A1-UL for IEC62368-1); CB by UL (DK-88996-UL for IEC60950-1). |
| 10a. Switching Power Supply (Alternate)  | SHENZHEN HUNTKEY ELECTRIC CO LTD. | HK850-53PP xy (x=A-Z or blank, y=0-9 or blank, for different market)                   | AC Input: 100-240Vac, 50/60Hz, 10A<br>DC Output: +12V1, 56A; -12V, 0.2A; +12V2, 30A; +12V1&+12V2 OUTPUT NOT EXCEED 750W; -12V OUTPUT NOT EXCEED 2.4W  | UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 | UL , CB by UL (DK-103358-UL for IEC 62368-1); CB by UL (DK-103357-UL for IEC 60950-1) |

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|---|---------------------------------|---|--|---|--|
|   |                                 |   | MAX. OUTPUT NOT EXCEED 750W; Altitude 5000m; Tma 50 degree C.  |   |  |
| 10b. Switching Power Supply (Alternate) | Lite-On Technology Corporation. | PA-3751-1YXXXXXX (Y= A-Z, "-" or blank ; X= A-Z, 0-9, "-" or blank) | AC Input Rating: 100-240V, 50/60Hz, 10A<br>DC Output Rating: +12V1 dc/56A max, +12V2 dc/30A max, -12V dc/0.2A max. (+12V1 dc)+(+12V2 dc) not exceed 750W; Maximum continuous total DC output shall not exceed 750W; Tma 50 degree C.           | UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 | UL , CB by TUV (JPTUV-115799 for IEC 62368-1);<br>CB by TUV (JPTUV-116060 for IEC 60950-1) |
| 10c. Switching Power Supply (Alternate) | Acbel Polytech Inc.             | PCK010  | AC Input: 100-240 Vac, 50/60 Hz, 7.0 A;<br>DC Output: +12V1/35 A, +12V2/30 A, -12.0V/0.2 A Rated output total watt: 500 W +12V1 &+12V2 combined output not exceed 500 W<br>-12.0V output not exceed 2.4 W;<br>Altitude 5000m; Tma 50 degree C. | UL 62368 2nd edition; IEC/EN 62368 2nd edition; IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 | UL , CB by TUV (JPTUV-101665 for IEC 62368-1);<br>CB by TUV (JPTUV-101760 for IEC 60950-1) |
| 11. HDD or SSD (Optional)               | Interchangeable                 | Interchangeable   | Generic,5Vdc/1.5A maximum, 12Vdc/1.0A maximum.   | UL 60950-1, IEC 62368-1, UL 62368-1   | UL , --  |
| 11a. HDD or SSD (Optional) (Alternate)  | Interchangeable                 | Interchangeable   | Generic,3.3Vdc maximum.  | UL 60950-1, IEC 62368-1, UL 62368-1   | UL , --  |
| 12. Optical Disk Drive (Optional)       | Interchangeable                 | Interchangeable   | Generic,5Vdc/1.5A maximum, Laser Class I product.  | UL 60950-1, IEC 62368-1, UL 62368-1   | UL , --  |
| 13. CPU Fan                             | Asia Vital Components Co., Ltd. | DS08025R12UP227   | 12V DC, 0.7A, 64.44CFM   | UL 507, IEC 60950-1   | UL , --  |
| 13a. CPU Fan (Alternate)                | SHENZHEN DONGWEIFENG ELECTRONIC | EFH-08E12W-GP01   | 12Vdc, 0.7A, 64.9CFM.  | UL 507, IEC 60950-1   | UL , --  |
| 13b. CPU Fan (Alternate)                | Delta Electronics, Inc          | AFB0812SH-9N07AGJ   | 12V DC, 0.51A, 64.5CFM   | UL 507, IEC/EN 62368-1:2014   | UL , --  |
| 13c. CPU Fan (Alternate)                | Everflow Precision Electronic   | F128025SUAF73bH   | 12Vdc, 0.6A, 61.59CFM.   | UL 507, IEC 60950-1   | UL , --  |
| 13d. CPU Fan (Alternate)                | Delta Electronics, Inc          | QFR0912VHWMX  | 12Vdc, 0.6A, 71.95CFM.   | UL 507, IEC/EN 62368-1:2014   | UL , --  |
| 13e. CPU Fan (Alternate)                | FOXCONN TECHNOLOGY CO LTD       | PVA080G12Q-P01-AD   | 12Vdc, 0.65A, 66.09CFM.  | UL 507, IEC 60950-1   | UL , --  |
| 13f. CPU Fan (Alternate)                | FOXCONN TECHNOLOGY CO LTD       | PVA092G12H-P07-AS   | 12Vdc, 0.4A, 56CFM.  | UL 507, IEC 60950-1   | UL , --  |
| 13g. CPU Fan (Alternate)                | FOXCONN TECHNOLOGY CO LTD       | PVA080G12Q-P66-AE   | 12Vdc, 0.65A, 66.09CFM.  | UL 507, IEC 60950-1   | UL , --  |
| 13-01.Heatsink for CPU                  | --                              | --  | Aluminum. See Enclosure 4-02 for details   | ----  | ---, ----  |

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# CERTIFICADO DE CONFORMIDADE

CERTIFICATE OF CONFORMITY

## BENS DE INFORMÁTICA INFORMATION TECHNOLOGY EQUIPMENT

**Certificado / Certificate:** UL-BR 22.4043

Emissão / Issue  
**7 de outubro de 2022**  
October 7, 2022

Revisão / Review: 2

Validade / Expiration  
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October 6, 2025

|   |   |  |  |                     |            |
|---|---|--|--|---------------------|------------|
| 14. System Fan (For rear side)  | Asia Vital Components Co., Ltd.                   | DS09225R12HP298  | 12Vdc, 0.7A, 58.04CFM.                       | UL 507, IEC 60950-1 | UL , --    |
| 14a. System Fan (For rear side) (Alternate)                             | SHENZHEN DONGWEIFENG ELECTRONIC TECHNOLOGY CO LTD | EFH-09E12D-EP01  | 12Vdc, 0.7A, 60.79CFM.                       | UL 507, IEC 60950-1 | UL , --    |
| 14b. System Fan (For rear side) (Alternate)                             | FOXCONN TECHNOLOGY CO LTD                         | PVA092G12H-P07-AS  | 12Vdc, 0.4A, 56CFM.                          | UL 507, IEC 60950-1 | UL , --    |
| 15. System Fan (For front side)   | Asia Vital Components Co., Ltd.                   | DS08025R12UP242  | 12Vdc, 0.7A, 64.44CFM.                       | UL 507, IEC 60950-1 | UL , --    |
| 15a. System Fan (For front side) (Alternate)                            | SHENZHEN DONGWEIFENG ELECTRONIC TECHNOLOGY CO LTD | EFH-08E12W-GP01  | 12Vdc, 0.7A, 64.9CFM.                        | UL 507, IEC 60950-1 | UL , --    |
| 15b. System Fan (For front side) (Alternate)                            | FOXCONN TECHNOLOGY CO LTD                         | PVA080G12Q-P66-AE  | 12Vdc, 0.65A, 66.09CFM.                      | UL 507, IEC 60950-1 | UL , --    |
| 16. Mother Board  | --  | --   | ---  | --                  | -- , --    |
| 16-01. RTC Battery  | PANASONIC CORPORATION OF NORTH AMERICA            | CR-2032*<br>(* - 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, maximum abnormal charging current 10mA | UL1642              | UL , --    |
| 16-01a. RTC Battery (alternate)   | Interchangeable                                   | CR-2032*<br>(* - 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, maximum abnormal charging current 10mA | UL 1642             | UL , --    |
| 16-02. IC for Front USB3 Port(U23, U30, U33, U57, U59, U71, U74, U4055) | UPI   | UP7566PMA5-25  | -  | -                   | UL , CB by |

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|---|--|--|---|--|--|
| 16-03. Heatsink for mainboard(beside CPU) | -  | -  | Aluminum. See Enclosure ID 4-03 and 4-04 for details  | -  | -  |
| 17. Graphics Card(Optional)(Alternate)    | NVIDIA CORP                                      | PG132(P/N: RTX A4500 or RTX A5000)                     | -   | UL60950-1, UL62368-1, IEC60950-1, IEC62368-1 | UL , UL , CB by UL (DK-110656-UL for IEC 60950-1, DK-110655-UL for IEC 62368-1:2014)   |
| 17a. Graphics Card(Optional)(Alternate)   | NVIDIA CORP                                      | PG172(P/N: Quadro T400 or Quadro T600 or Quadro T1000) | -   | UL60950-1, UL62368-1, IEC60950-1, IEC62368-1 | UL , UL , CB by UL (DK-81642-M3-UL for IEC 60950-1, DK-92219-M3-UL for IEC 62368-1:2014)                                       |
| 17b. Graphics Card(Optional)(Alternate)   | NVIDIA CORP                                      | -  | -   | UL60950-1, UL62368-1, IEC60950-1, IEC62368-1 | UL , UL , CB by UL (DK-112383-UL for IEC 60950-1, DK-112390-M2- UL for IE 62368-1:2014)  |
| 17c. Graphics Card(Optional)(Alternate)   | NVIDIA CORP                                      | PG192(P/N: RTX A2000)                                  | -   | UL62368-1, IEC60950-1, IEC62368-1            | UL , UL , CB by UL (DK-111495-M2-UL for IEC 60950-1, DK-92219-M3-UL for IEC 62368-1:2014, DK116461-M1-UL for IEC 62368-1:2018) |
| 17d. Graphics Card(Optional)(Alternate)   | MICRO-STAR INTERNATIONAL CO LTD                  | V505(P/N: RTX 3070Ti)                                  | -   | UL60950-1, UL62368-1, IEC60950-1, IEC62368-1 | UL , UL , CB by TUV (JPTUV-125845 for IEC 60950-1, JPYUV-125844 for IEC 62368-1:2014)  |
| 17e. Graphics Card(Optional)(Alternate)   | SHENZHEN BITLAND INFORMATION TECHNOLOGY CO., LTD | BD3K88( P/N: RTX 3060)                                 | -   | UL62368-1, IEC60950-1, IEC62368-1            | UL , CB by TUV (certificate No.JPTUV-101815)   |
| 18. Openings                              |  |  | See Enclosure ID 4-01 for details   |  |  |
| 19. Foot pad                              | Interchangeable                                  | Interchangeable  | Min V-1   | UL94, UL746C                                 | UL , --  |
| 20. Flexible Printed Wiring               | Interchangeable                                  | Interchangeable  | V-2 or VTM-2 minimum when no components mounted on surface.   | UL94, UL746C                                 | UL , --  |
| 20a. Flexible Printed Wiring              | Interchangeable                                  | Interchangeable  | V-2 or VTM-2 minimum when no components mounted on surface.   | UL 94, UL 746E                               | UL , --  |
| 20b. Flexible Printed Wiring (Alternate)  | Interchangeable                                  | Interchangeable  | Rated V-2 or VTM-2 minimum, when no components mounted on surface; If components mounted on surface, it should be V-1 or VTM-1. | UL 796, UL 796F                              | UL , --  |

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