**““BILL OF MATERIAL””**

**FOR**

**“CPCI BASED ADVANCED LAUNCH COMPUTER”**

**(P.O No: ASL/DA1P/RCI/R/DA1P/0213/20/4009/4002)**

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| **PREPARED BY** | **CHECKED BY** | **APPROVED BY** |
| PURUSHOTHAM REDDY  APPLICATION ENGINEER  DATASOL REP  SIGNATURE: | RAJMOHAN.K  MANAGER  DATASOL REP  SIGNATURE: | SABITHA RANI  QUALITY MANAGER  DATASOL REP  SIGNATURE: |

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| **A: COTS PRODUCTS BOM** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **1** | **S-484283C-2F-80** | **CPCI Chassis with Rack-mount Slides** | **1** | **20** | **0° to 50°C** | **Mapsukka** |  |
| **2** | **cBP-3206** | **6 slots CPCI Backplane with Rear IO** | **1** | **20** | **0° to 50°C** | **Adlink** |  |
| **3** | **cBP-3061** | **3U CPCI Power Supply backplane** | **1** | **20** | **0° to 50°C** | **Adlink** |  |
| **4** | **cPS-H325/AC** | **CPCI Power Supply: 3U height: 250W CPCi Plug-in PSU** | **1** | **20** | **0° to 50°C** | **Adlink** |  |
| **5** | **cPCI-3510BLD/5700E/M16** | **2-slot (8HP) 3U CompactPCI blade with IntelR Core i7-5700EQ CPU and 8GB DDR3L-1333 ECC-soldered memory,DVI,2x GbE,1x USB 3.0, COM, 2xUSB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector, -200C to +700C operation** | **1** | **20** | **0° to 50°C** | **Adlink** |  |
| **6** | **cPCI-R3P00** | **8 HP Rear I/O module for cPCI-3970 with GbE x2,COM x2, USB x2, SATA x3, VGA, 50mm depth** | **1** | **20** | **0° to 50°C** | **Adlink** |  |
| **7** | **DGS25-01TD81BWAQC-J27** | **1TB 2.5" SSD 3MG2-P WT** | **1** | **20** | **0° to 50°C** | **Innodisk** |  |
| **8** | **cPCI-XMCe Adapter** | **3U compact PCI carrier card for XMC PCI Express modules, 64-bit PCI. Support for PXI clock and trigger features (logic dependent)** | **1** | **20** | **0° to 50°C** | **Molex** |  |
| **9** | **X3N1050TI-LFAB-HDMI-B +1** | **VHDCI to 4 HDMI cable included NVIDIA GTX1050TI XMC 4GB 128bit/GDDR5 HDMI via VHDCI(front panel) Air-cooled 60W768 CUDA Extended Temp: -20~+70degC ,1\*VHDCI to 4 HDMI cable included** | **1** | **20** | **0° to 50°C** | **Aetina** |  |
| **10** | **cPCI-XMCe Adapter** | **3U compact PCI carrier card for XMC PCI Express modules, 64-bit** | **-** | **5** | **0° to 50°C** | **Molex** |  |
| **11** | **LFA75F-12** | **AC to DC Power Supply** | **1** | **20** | **0° to 50°C** | **COSEL / SM Ele** |  |
| **12** | **EKSB-97-TP** | **Keyboard with touch pad** | **1** | **20** | **0° to 50°C** | **IKEY** |  |
| **13** | **EP-660-6 / EF-1B006B20E-C02** | **Elcom Filter** | **1** | **20** | **0° to 50°C** | **Elcom** |  |
| **14** | PDK-**B**185W /  G185HAN01.0 | **18.5" display** | **1** | **20** | **0° to 50°C** | **ELGENS / AUO** |  |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **15** | **H8550VBACA** | **ON /OFF Switch** | **1** | **20** | **0° to 50°C** | **ROCKER SWITCH** |  |
| **16** | **657-1250F-003** | **DC Feed Through Filter** | **2** | **40** | **0° to 50°C** | **API TECHNOLOGIES** |  |
| **17** | **LXR3612GD** | **Power LED (Green)** | **1** | **20** | **0° to 50°C** | **LUMEX** |  |
| **18** |  | **Torque Hinges** | **2** | **40** |  |  |  |

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| **B: MISCELLEANEOUS COMPONENTS BOM** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **1** | **NA** | **Red Hat Enterprise Linux 7.5 or higher Workstation version license media with 01-year technical support** | **-** | **2** | **NA** | **REDHAT** |  |
| **2** | **NA** | **Linux Driver software and sample test programs for all resources** | **-** | **-** | **NA** | **DATASOL** |  |
| **3** |  | **External USB DVD Drive** | **-** | **5** | **0° to 50°C** | **Transcend or Equv** |  |
| **4** |  | **Display Port/DVI to VGA adaptor cable of length 3m** | **-** | **10** | **0° to 50°C** | **Startech/ Equv** |  |
| **5** |  | **VGA Splitter for extending VGA output up to 50m** | **-** | **5** | **0° to 50°C** | **Startech/ Equv** |  |
| **6** |  | **Cat 6 Gigabit Ethernet cables terminated with RJ45 connectors – 10 m length,** | **1** | **20** | **0° to 50°C** | NT Tech / Eurotech |  |
| **7** |  | **Cat 6 Gigabit Ethernet cables terminated with RJ45 connectors – 5 m length** | **1** | **20** | **0° to 50°C** | NT Tech / Eurotech |  |
| **8** |  | **DVI-D Dual Link cable Male to Male Std. Length (1.8mtrs)** | **1** | **20** | **NA** | NT Tech**/ Equv** |  |
| **9** |  | **USB Male to Male Cable Std Length (1.8mtrs)** | **1** | **20** | **NA** | NT Tech **/ Equv** |  |
| **10** |  | **USB connector (Male to Female) Gender changer Panel Mount** | **2** | **40** | **NA** | NT Tech **/ Equv** | **1 cable is enough, to be reviewed** |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **11** |  | **DVI Cable M-F Dual Link with Ferrite core- 0.5mtr** | **1** | **20** | **0° to 50°C** | **Pacific Cable USA** |  |
| **12** |  | **Membrane keypad** | **1** | **20** | **0° to 50°C** |  |  |
| **13** |  | **EMI Shield for Display** | **1** | **20** | **0° to 50°C** | **SSD POLYMERS** |  |
| **14** |  | **Gaskets** | **-** | **As Req** | **0° to 50°C** | **SSD POLYMERS** |  |
| **15** | **761KS17** | **DC Power In Male Connector** | **1** | **20** | **0° to 50°C** | SWITCHCRAFT |  |
| **16** | **L712AS** | **DC Power In Female connector** | **1** | **20** | **0° to 50°C** | SWITCHCRAFT |  |
| **17** |  | **3 Core Shielded Power Cable (Red, Black & Green) Length 1.8mtrs** | **1** | **20** | **0° to 50°C** | **DATASOL** |  |
| **18** |  | **3 Pin ISI make Good Quality Plug** | **1** | **20** | **0° to 50°C** | **CONA** |  |
| **19** |  | **Packing Box for KVM** | **1** | **20** |  |  |  |
| **20** |  | **Packing Box for cPCI Chassis** | **1** | **20** |  |  |  |

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| **C: DBPL-AC-I/IP-18-01 BOM** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY / 20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **1** | **2200LL-471-H-RC** | **Line Filter** | **2** | **40** | **-55°C to 125°C** | **[BOURNS](https://www.mouser.in/manufacturer/bourns/)** | **Available** |
| **2** | **744825433** | **Common Mode Choke** | **1** | **20** | **-40°C to 125°C** | **WURTH ELEKTRONIK** | **Available** |
| **3** | **1711738** | **AC I/P & O/P Terminal Blocks** | **2** | **20** | **-30°C to +105°C** | |  | | --- | | **PHOENIX** | | **Available** |
| **4** | **DBPL-AC-I/IP-18-01** | **Common mode filter PCB board** | **1** | **20** | **NA** | **ORION** | **Available** |

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| **D: MIL-CIRCULAR CONNECTORS BOM** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY / 20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** | **REMARKS** |
| **1** | **MS3102R-10SL-3P** | **Power Circular connector** | **1** | **20** | **NA** | **Allied** |  |
| **2** | **MS3106F-10SL-3S** | **Power Circular matting** | **1** | **20** | **NA** | **Allied** |  |

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| **E: MECHANICAL ITEMS BOM** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **MATERIAL SPECIFICATION** | **QTY / UNIT** | **QTY / 20 UNITS** | **MANUFACTURER** | **REMARKS** |
| **1** |  |  |  |  |  |  |  |
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| **F: FASTENERS BOM** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **MATERIAL SPECIFICATION** | **QTY / UNIT** | **QTY / 20 UNITS** | **MANUFACTURER** |
| **1** |  |  |  |  |  |  |
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| **18** |  |  |  |  |  |  |
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