**“BILL OF MATERIAL”**

**FOR**

**“ cPCI BASED ADVANCED LAUNCH COMPUTER & rKVM”**

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

**PREPARED BY: CHECKED BY: APPROVED BY:**

**PURUSHOTHAM REDDY (DATASOL REP.) RAJMOHAN.K (DATASOL REP.) SABITHA RANI (DATASOL REP.)**

**DESG: APPLICATION ENGG. MANAGER QUALITY MANAGER**

**SIGNATURE: SIGNATURE: SIGNATURE:**

**CHECKED BY: APPROVED BY:**

**ASL REP. ASL REP.**

# **INDEX**

**SECTION A: rKVM**

|  |  |  |
| --- | --- | --- |
| **DESCRIPTION** | | **PAGE NO** |
| **A1** | **COTS PRODUCTS BOM** | **04** |
| **A2** | **MISCELLEANEOUS COMPONENTS BOM** | **04** |
| **A3** | **MIL-CIRCULAR CONNECTORS BOM** | **04** |
| **A4** | **OUTSOURCED & FASTENERS BOM** | **05** |
| **A5** | **MECHANICAL PARTS BOM** | **06** |

**SECTION B: cPCI BASED ADVANCED LAUNCH COMPUTER**

|  |  |  |
| --- | --- | --- |
| **DESCRIPTION** | | **PAGE NO** |
| **B1** | **COTS PRODUCTS BOM** | **07** |
| **B2** | **MISCELLEANEOUS COMPONENTS BOM** | **07** |
| **B3** | **SOFTWARES** | **07** |
| **B4** | **OUTSOURCED & FASTENERS BOM** | **08** |
| **B5** | **MECHANICAL PARTS BOM** | **09** |
| **B6** | **SPARE BOM** | **09** |

**SECTION C: ACCESSORIES**

|  |  |  |
| --- | --- | --- |
| **DESCRIPTION** | | **PAGE NO** |
| **C1** | **ACCESSORIES** | **10** |

**SECTION D: CABLES**

|  |  |  |
| --- | --- | --- |
| **DESCRIPTION** | | **PAGE NO** |
| **D1** | **CABLES** | **10** |

**SECTION A: rKVM**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **A1: COTS PRODUCTS BOM** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **G185HAN01.0** | **18.5” Display with AD board**  **Resolution supports up to 1920\*1080, 350nits Brightness. 89/89/89/89 Viewing angle** | **1** | **20** | **-20° to +70°C** | **ELGENS** |
| **2** | **EKSB-97-TP** | **Keyboard With integrate Touch pad** | **1** | **20** | **-40° to +70°C** | **IKEY** |
| **3** | **EF-1B006B20E-C02** | **EMI-RFI Filter** | **1** | **20** | **-25° to +85°C** | **ELCOM** |
| **4** | **LFA75F-12** | **AC to DC Power supply** | **1** | **20** | **-10° to +70°C** | **COSEL** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****A2: MISCELLEANEOUS COMPONENTS BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **MP0045/1E2/BL/012** | **ON /OFF Switch With Blue LED indication** | **1** | **20** | **-20° to +55°C** | **BULGIN** |
| **2** | DBPL-HMKP-01 | **Horizontal Membrane Keypad** | **1** | **20** | - | **GVS ELECTRONICS** |
| **3** | 761KS17 | **DC Jack** | **1** | **20** | **-** | SWITCHCRAFT |
| **4** | NA | **ISO mark 3-Pin power socket** | **1** | **20** | - | Anchor |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****A3: MIL-CIRCULAR CONNECTORS BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **MS3102R-10SL-3P** | **Power Circular connector** | **1** | **20** | **-55° to +125°C** | **AMPHENOL** |
| **2** | **MS3106F-10SL-3S** | **Power Circular matting** | **1** | **20** | **-55° to +125°C** | **AMPHENOL** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****A4: OUTSOURCED & FASTENERS BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **HG-TA45HR** | **TORQUE HINGES** | **2** | **40** | **-** | **SUGASTANE** |
| **2** | **2807-16** | **ACCURIDE SLIDES** | **1 SET** | **20 SETS** | **-** | **ACCURIDE** |
| **3** | **1241494** | **M6 HEX NUT** | **2** | **40** | **-** | **LPS** |
| **4** | **1099183** | **M6 WING NUT** | **1** | **20** | **-** | **LPS** |
| **5** | **1250744** | **M3x8 CSK SCREW (PHILIPS HEAD)** | **64** | **1280** | **-** | **LPS** |
| **6** | **1250809** | **M4x12 PHILIPS CSK SCREWS** | **4** | **80** | **-** | **LPS** |
| **7** | **1156497** | **M4x14 PHILIPS CSK SCREWS** | **12** | **240** | **-** | **LPS** |
| **8** | **1250507** | **M3x12 PAN HEAD SCREWS** | **4** | **80** | **-** | **LPS** |
| **9** | **1253565** | **M3 SPRING WASHER** | **4** | **80** | **-** | **LPS** |
| **10** | **1253190** | **M3 PLAIN WASHERS** | **4** | **80** | **-** | **LPS** |
| **11** | **1241443** | **M3 HEX NUT** | **4** | **80** | **-** | **LPS** |
| **12** | **1250477** | **M3x6 PHILIPS PAN HEAD** | **8** | **160** | **-** | **LPS** |
| **13** | **1241478** | **M4 HEX NUT** | **2** | **40** | **-** | **LPS** |
| **14** | **1250426** | **M2.5x6 PAN HEAD SCREWS** | **4** | **80** | **-** | **LPS** |
| **15** | **1233262** | **M5x8 SOCKET HEAD SCREWS** | **8** | **160** | **-** | **LPS** |
| **16** | **1233106** | **M3x6 SOCKET HEAD SCREWS** | **4** | **80** | **-** | **LPS** |
| **17** | **1111353** | **M4x14 SOCKET HEAD SCREWS** | **2** | **40** | **-** | **LPS** |
| **18** | **1250558** | **M4x8 PAN HEAD (PHILIPS HEAD)** | **12** | **240** | **-** | **LPS** |
| **19** | **1233181** | **M4X8 socket head screws** | **4** | **80** | **-** | **LPS** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****A5: MECHANICAL PARTS** **BOM**** | | | | | | |
| **S. NO** | **DRAWING NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **DBPL-ARKVM-PD-01** | **ASL RKVM BOTTOM HOUSING** | **1** | **20** | **-** | **DATASOL** |
| **2** | **DBPL-ARKVM-PD-02** | **ASL RKVM DISPLAY BEZEL** | **1** | **20** | **-** | **DATASOL** |
| **3** | **DBPL-ARKVM-PD-03** | **ASL RKVM KRYBOARD PLATE** | **1** | **20** | **-** | **DATASOL** |
| **4** | **DBPL-ARKVM-PD-04** | **DISPLAY COVER FOR ASL RKVM** | **1** | **20** | **-** | **DATASOL** |
| **5** | **DBPL-ARKVM-PD-05** | **FRONT PLATE FOR ASL RKVM** | **1** | **20** | **-** | **DATASOL** |
| **6** | **DBPL-ARKVM-PD-06** | **HANDLE P40xM4** | **2** | **40** | **-** | **DATASOL** |
| **7** | **DBPL-ARKVM-PD-07** | **LIFTING HANDLE** | **1** | **20** | **-** | **DATASOL** |
| **8** | **DBPL-ARKVM-PD-08** | **DISLPAY RHS SIDE FLANGE** | **1** | **20** | **-** | **DATASOL** |
| **9** | **DBPL-ARKVM-PD-09** | **DISPLAY LHS SIDE FLANGE** | **1** | **20** | **-** | **DATASOL** |
| **10** | **DBPL-ARKVM-PD-10** | **DISPLAY SUPPORT CLAMP** | **1** | **20** | **-** | **DATASOL** |
| **11** | **DBPL-ARKVM-PD-11** | **DISPLAY SUPPORT CLAMP2** | **1** | **20** | **-** | **DATASOL** |
| **12** | **DBPL-ARKVM-PD-12** | **HINGES SCREWS CLOSING BLOCK** | **1** | **20** | **-** | **DATASOL** |
| **13** | **DBPL-ARKVM-PD-13** | **HINGES SCREWS CLOSING BLOCK2** | **1** | **20** | **-** | **DATASOL** |
| **14** | **DBPL-ARKVM-PD-14** | **KEYBOARD CLOSING PLATE** | **1** | **20** | **-** | **DATASOL** |
| **15** | **DBPL-ARKVM-PD-15** | **EMI SHIELDING WINDOWS** | **1** | **20** | **-** | **DATASOL** |
| **16** | **DBPL-ARKVM-PD-16** | **HINGES BLOCK FOR ASL RKVM** | **2** | **40** | **-** | **DATASOL** |

**SECTION B: cPCI BASED ADVANCED LAUNCH COMPUTER**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **B1: COTS PRODUCTS BOM** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **cPCI-3510BLD/5700E/M8** | **2-slot (8HP) 3U CompactPCI blade with Intel® 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, -20C to +70C operation** | **1** | **20** | **-20° to +70°C** | **ADLINK** |
| **2** | **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** | **-20° to +70°C** | **ADLINK** |
| **3** | **cBP-3206** | **6 slots cPCI Backplane** | **1** | **20** | **-10° to +70°C** | **ADLINK** |
| **4** | **cBP-3061** | **cPCI power supply Backplane** | **1** | **20** | **-10° to +70°C** | **ADLINK** |
| 5 | **cPS-H325/AC** | **cPCI Power Supply: 3U height: 250W cPCI Plug-in PSU** | **1** | **20** | **-40° to +70°C** | **ADLINK** |
| **6** | **DGS25-01TD81BWAQC-J27** | **1TB 2.5" SATA III MLC SSD 3MG2-P WT** | **1** | **20** | **-40° to +85°C** | **INNODISK** |
| **7** | **80207-0** | **3U compact PCI carrier card for XMC PCI Express modules, 64-bit PCI. Support for PXI clock and trigger features (logic dependent)** | **1** | **20** | **-20° to +70°C** | **MOLEX** |
| **8** | **X3N1050TI-LFAB-DVI-B** | **NVIDIA GTX1050TI XMC 4GB 128bit/GDDR5 4\*DVI, Air-cooled 60W768 CUDA Extended Temp: -20~+70degC** | **1** | **20** | **-20° to +85°C** | **AETINA** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****B2: MISCELLEANEOUS COMPONENTS BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY /UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **MP0045/1E2/BL/012** | **ON /OFF Switch With Blue LED indication** | **1** | **20** | **-20° to +55°C** | **BULGIN** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****B3: SOFTWARE BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **RH0958488** | **RHEL 7.5 or Higher Workstation with media** | - | **2** | **-** | **EGLOBE** |
| **2** | **NA** | **Linux Drivers Software & Sample test programs for all resources** | **-** | **1** | **-** | **DATASOL** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****B4: OUTSOURCED & FASTENERS BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | 66-678-23 | STANDARD EXTRUSION | 4 | 80 | **-** | ELMA |
| **2** | 66-144-23 | STANDARD EXTRUSION | 2 | 40 | **-** | ELMA |
| **3** | 66-138-23 | STANDARD EXTRUSION | 2 | 40 | **-** | ELMA |
| **4** | 61-950-01 | CARD GUIDE | 14 | 280 | **-** | ELMA |
| **5** | 2907-16 | ACCURIDE SLIDES | 1 | 20 | **-** | ACCURIDE |
| **6** | 47-92-121-20 | M3 CAPTIVE SCREW | 4 | 80 | **-** | SOUTCO |
| **7** | MF60151V3-1000U-A99 | FAN 60x60 | 4 | 80 | **-** | SUNON |
| **8** | STD | FAN FINGER GUARD 60x60 | 4 | 80 | **-** | STD |
| **9** | **1250434** | **M2.5x8 PAN HEAD (PHILIPS HEAD)** | **29** | 580 | **-** | **LPS** |
| **10** | **1250744** | **M3x8 CSK SCREW (PHILIPS HEAD)** | **50** | 1000 | **-** | **LPS** |
| **11** | **1250760** | **M3x12 CSK SCREW (PHILIPS HEAD)** | **16** | 320 | **-** | **LPS** |
| **12** | **1250809** | **M4x12 PHILIPS CSK SCREW** | **4** | 80 | **-** | **LPS** |
| **13** | **1250787** | **M4x8 CSK SCREW (PHILIPS HEAD)** | **6** | 120 | **-** | **LPS** |
| **14** | **1250795** | **M4x10 CSK SCREW (PHILIPS HEAD)** | **32** | 640 | **-** | **LPS** |
| **15** | **1250477** | **M3x6 PHILIPS PAN HEAD** | **4** | 80 | **-** | **LPS** |
| **16** | **1075632** | **M4x25 PHILIPS CSK SCREW** | **16** | 320 | **-** | **LPS** |
| **17** | **1241478** | **M4 HEX NUT** | **16** | 320 | **-** | **LPS** |
| **18** | **1250558** | **M4x8 PAN HEAD (PHILIPS HEAD)** | **14** | 280 | **-** | **LPS** |
| **19** | **1241494** | **M6 HEX NUT** | **2** | 40 | **-** | **LPS** |
| **20** | **1099183** | **M6 WING NUT** | **1** | 20 | **-** | **LPS** |
| **21** | **FN9266B-6-06** | **AC Power Entry Modules** | **1** | 20 | **-** |  |
| ****B5: MECHANICAL PARTS** **BOM**** | | | | | | |
| **S. NO** | **DRAWING NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **DBPL-ACPCI-PD-01** | **BOTTOM PLATE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **2** | **DBPL-ACPCI-PD-02** | **DOOR FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **3** | **DBPL-ACPCI-PD-03** | **FRONT PLATE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **4** | **DBPL-ACPCI-PD-04** | **LHS PLATE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **5** | **DBPL-ACPCI-PD-05** | RHS PLATE FOR ASL cPCI | **1** | **20** | **-** | **DATASOL** |
| **6** | **DBPL-ACPCI-PD-06** | **LHS FLANGE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **7** | **DBPL-ACPCI-PD-07** | **RHS FLANGE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **8** | **DBPL-ACPCI-PD-08** | **TOP PLATE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **9** | **DBPL-ACPCI-PD-09** | **REAR PLATE FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **10** | **DBPL-ACPCI-PD-10** | **REAR DOOR FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **11** | **DBPL-ACPCI-PD-11** | **HANDLE P115xM4** | **2** | **40** | **-** | **DATASOL** |
| **12** | **DBPL-ACPCI-PD-12** | **HINGES1 FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **13** | **DBPL-ACPCI-PD-13** | **HINGES2 FOR ASL cPCI** | **1** | **20** | **-** | **DATASOL** |
| **14** | **DBPL-ACPCI-PD-14** | **ASL DVI-DB CABLES FIXING PLATE** | **1** | **20** | **-** | **DATASOL** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****B6: SPARE BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **80207-0** | **3U compact PCI carrier card for XMC PCI Express modules, 64-bit** | **-** | **05** | **-20° to +70°C** | **MOLEX** |

**SECTION C: ACCESSORIES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****C1: ACCESSORIES BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **GP65NB60** | **External USB DVD Drive** | **-** | **5** | **-** | **LG** |

**SECTION D: CABLES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****D1: CABLES BOM**** | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | **MANUFACTURER** |
| **1** | **NT 259** | **USB Panel Mount connector (Female to Female) for KVM** | **1** | **20** | **-** | **NT Tech** |
| **2** | **DBPL-DVI-MF-01** | **DVI MALE TO FEMALE** | **2** | **40** | **-** | **NT Tech** |
| **3** | **DVI2DP2 or STD** | **DVI TO DP CONVERTOR** | **1** | **20** | **-** | **STARTECH / NT Tech** |
| **4** | **NA** | **DP Male to DP Female Panel Mount Cable** | **1** | **20** | **-** | **NT Tech** |
| **5** | **EPC-67522.0** | **3-Pin power cord for cPCI chassis** | **1** | **20** | **-** | **L-COM** |
| **6** | **DBPL-PWR-KVM** | **1.8 Meters circular Power cable for KVM** | **1** | **20** | **-** | **DATASOL** |
| **7** | **NA** | **1.8 Meters DVI Male to Male cable** | **1** | **20** | **-** | **Standard** |
| **8** | **NA** | **1.8 Meters USB male to Male Cable** | **1** | **20** | **-** | **Standard** |
| **9** | **NA** | **Cat 6 Gigabyte Ethernet cables terminated with RJ45 connectors – 10 m length** | **1** | **20** | **-** | **NT Tech** |
| **10** | **NA** | **Cat 6 Gigabyte Ethernet cables terminated with RJ45 connectors – 5 m length** | **1** | **20** | **-** | **NT Tech** |
| **11** | **ST128W** | **VGA Splitter with 8 port for extending VGA output up to 50m** | **-** | **05** | **-** | **Startech** |
| **12** | **DP2VGAMM10B** | **Display Port to VGA adaptor cable with Display port patch cable of length 3m** | **-** | **10** | **-** | **Startech** |
| **13** | **NA** | **RGB wires for internal & External wirings** | **As Req** | **As Req** | **-** | **Datasol** |
| **14** | **NA** | **LAN Male to Female Panel mount for cPCI** | **1** | **20** | **-** | **NT Tech** |

**SECTION E: PACKING BOX**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ****E1: PACKING BOX BOM**** | | | | | | | |
| **S. NO** | **PART NO** | **DESCRIPTION** | **QTY / UNIT** | **QTY /20 UNITS** | **OPERATING TEMP** | | **MANUFACTURER** |
| **1** | **DBPL-PB-CPCI** | **Packing box for cPCI chassis** | **1** | **20** | **-** | **DATASOL** | |
| **2** | **DBPL-PB-KVM** | **Packing box for rKVM** | **1** | **20** | **-** | **DATASOL** | |