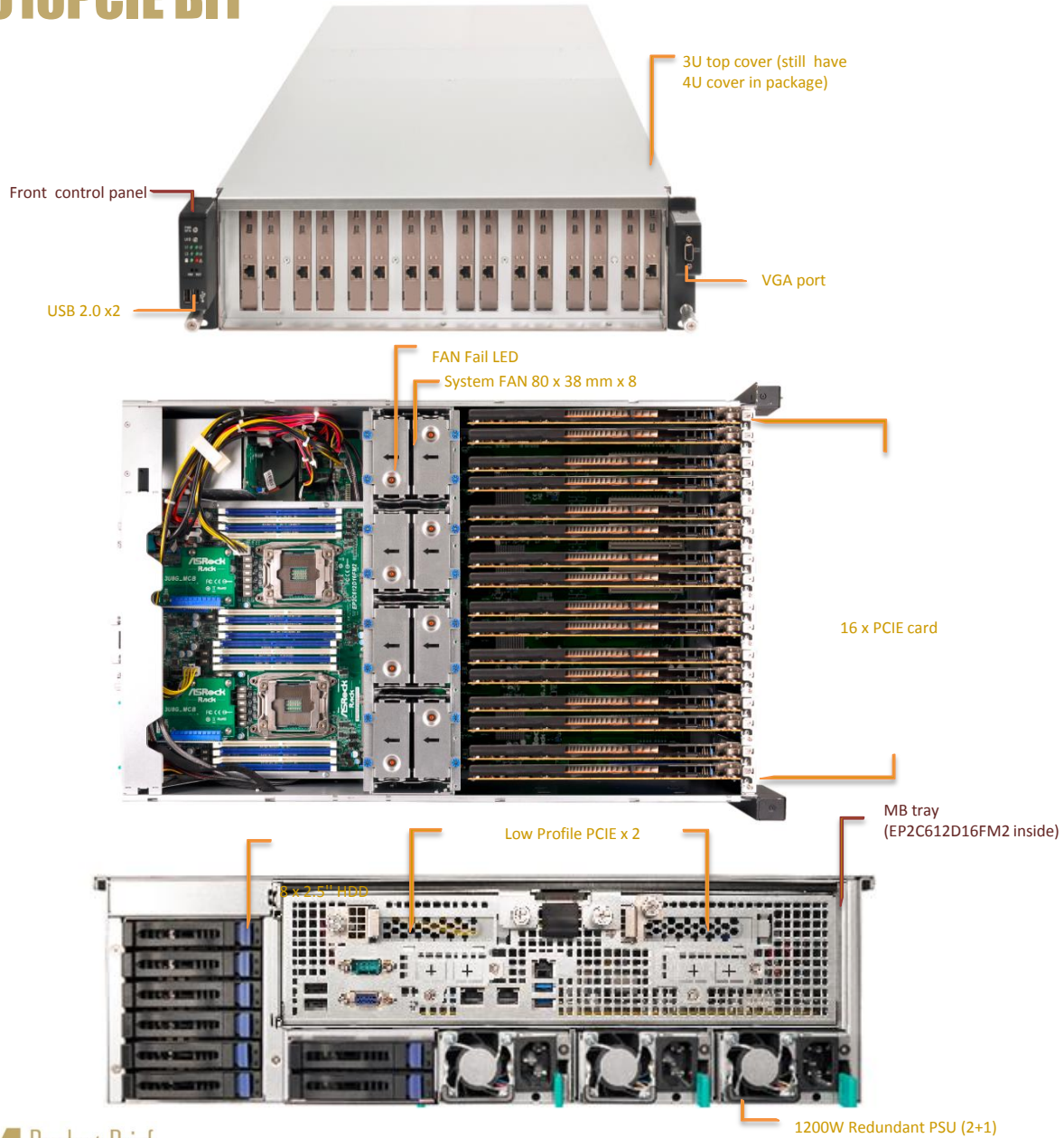




3U16PCIE BIT



Product Brief

- 3U Rackmount with 1200W Redundant PSU (2+1)
- Intel® Xeon® processor E5-2600 v3/v4 series
- Support 16 x DDR4 DIMM slot, 2133/2400 RDIMM, LR DIMM
- Supports 16 PCIe Card
- Supports Intel i350 Dual GLAN
- Supports 8 x SATA3 6.0 Gb/s
- Supports 2 x PCIe card or 2 x Mezz LAN card*

* If need support mezzanine LAN card, please contact with sales to buy the kits.



Product Specifications

| System | |
|-------------------------------|---|
| Form Factor | - 3U Rackmount |
| Chassis Model | - 3U16PCIE BIT |
| Dimensions | - 722.3 x 430 x 170.35 mm |
| Support MB | - EATX, 12 x 10.56 inch (EP2C612D16FM2) |
| System Front Panel | |
| Front control Panel | |
| Buttons | - Power button |
| | - UID button |
| | - Reset button |
| | - NMI button |
| LEDs | - 2 x LAN LEDs (L1 , L2 , LED) |
| | - 2 x Front LEDs |
| | - HDD LED |
| | - System event LED |
| I/O Ports | - 2 x USB 2.0 ports |
| | - VGA port x1 |
| MB tray(EP2C612D16FM2 inside) | |
| USB 2.0 | - 2 |
| USB 3.0 | - 2 |
| Serial Port | - 1 |
| VGA | - 1 x D-Sub |
| Lan Port | - 2 (GLAN by Intel i350)+1 (IPMI) Lan port (RJ45) |
| | - LAN Ports with LED (ACT/LINK LED and SPEED LED) |
| UID Button/UID LED | -1 |
| External Drive Bay | |
| Front Side Drive Bay | - 8 Bay 2.5" SATA HDD (6Gb/s) |
| Power Supply | |
| Type | - 3 (2+1), Redundant |
| Output Watts | - 1200W, Platinum |
| System Fan | |
| Fan | - 80 x 38 mm x 8 |
| FAN Fail LED | - Abnormal(DC on): LED ON (Solid Red) |
| | - Normal: LED OFF (For the FAN in the center) |
| System Switch board | |
| Switch IC | - PLX 8747 |
| PCIe card | |
| PCIe Watts | - Max 75W /per card |
| Support PCIe | -16 x PCIe card |



| | |
|-------------------------------|---|
| Motherboard | EP2C612D16FM2 |
| MB Physical Status | |
| Form Factor | - SSI CEB |
| Dimensions | - 12" x 10.5" (30.5 cm x 26.7 cm) |
| Processor System | |
| CPU | - Intel® Xeon® processor E5-2600/4600 v3/v4 series |
| Socket | - Dual Socket LGA 2011 R3 |
| Chipset | - Intel® C612 |
| System Memory | |
| Capacity | - 16 DIMM slots - Quad Channel memory technology |
| Type | - Supports 2133/2400 RDIMM and LRDIMM |
| Voltage | - 1.2V |
| Expansion Slot | |
| Additional PCIe switch | - Front Right Angle 2 x16 from each CPU to Midplane, total 4 x16 (need to bundle with ASRock Rack system board) |
| Storage | |
| SATA Controller | - Intel® C612 : 6 x SATA3 6.0 Gb/s (4 from 1 mini SAS connector + 2x SATA3 connector) |
| Additional Storage Controller | - N/A |
| Ethernet | |
| Interface | - 1000 /100 /10 Mbps - 2 x RJ45 by Intel® i350 - 1 x RJ45 Dedicated IPMI LAN port - Supports Wake-On-LAN |
| LAN Controller | - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 Supports NCSI |
| Mezzanine | - 2 x x8 Mezzanine slot support mezzanine card with 2 X40G Ethernet or 2 x10G Ethernet or 2 xGLAN(2x 40G SFP28 by Mellanox MT27712A0-FDCF-AE or 2x 10G Base-T by Intel® X540 or 2 x SFP+ by Intel® 82599ES or 2 x GLAN by Intel® i350) - Supports NCSI |
| Management | |
| BMC Controller | - ASPEED AST2400 |
| IPMI Dedicated GLAN | - 1 x Realtek RTL8211E for dedicated management GLAN |
| Features | - Watch Dog - NMI |
| Graphics | |
| Controller | - ASPEED AST2400 |
| VRAM | - DDR3 16MB |
| Rear Panel I/O | |
| VGA Port | - 1 x D-Sub |
| USB 2.0 Port | -2 |

| | |
|---------------------------|---|
| USB 3.0 Port | -2 |
| Lan Port | - 2 + 1 (IPMI) Lan port (RJ45) - LAN Ports with LED (ACT/LINK LED and SPEED LED) |
| Serial Port | - 1 (COM1) |
| UID Button/UID LED | -1 |
| Internal Connector | |
| Auxiliary Panel Header | - 1 (includes chassis intrusion, location button & LED, front LAN LED) |
| TPM Header | -1 |
| IPMB Header | -1 |
| Fan Header | - 2x CPU Fan, 3x system Fan (4-pin) |
| ATX Power | - 1 (24-pin) + 2 (8-pin) |
| USB 3.0 Header | - 1 (support 2 USB 3.0) |
| USB 2.0 Header | - 2 (support 2 USB 2.0) |
| Type A USB 3.0 Port | -1 |
| Front Panel | -1 |
| Mezzanine | -2 |
| System BIOS | |
| BIOS Type | - 128Mb AMI UEFI Legal BIOS - Plug and Play (PnP) |
| BIOS Features | - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash |
| Hardware Monitor | |
| Temperature | - CPU Temperature Sensing - System Temperature Sensing - Card Side Temperature Sensing |
| Fan | - CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) - CPU/Rear/Front Fan Multi-Speed Control |
| Voltage | - Voltage Monitoring: CPU1, CPU2, mem, 3v/5v/12v,+1.05V_PCH, +BAT, 3VSB, 5VSB |
| Support OS | |
| OS | Microsoft® Windows® - Server 2008 R2 SP1 (64 bit) - Server 2012 (64 bit) - Server 2012 R2 (64 bit) Linux - RedHat Enterprise Linux Server 6.8 / 7.2 (64 bit) - CentOS 6.8 / 7.2 (64 bit) - SUSE Enterprise Linux Server 12 SP1 (64 bit) - SUSE Enterprise Linux Server 11 SP4 (32 / 64 bit) - FreeBSD 11 (32 / 64 bit) - Fedora core 24 (64 bit) - Ubuntu 16.04 (64 bit) / 15.10 (64 bit) Virtual - VMWare® ESXi 5.5 (not supported for Marvell 9172) - VMWare® ESXi 6.0 (not supported for Marvell 9172) |
| Environment | |

Temperature

Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C