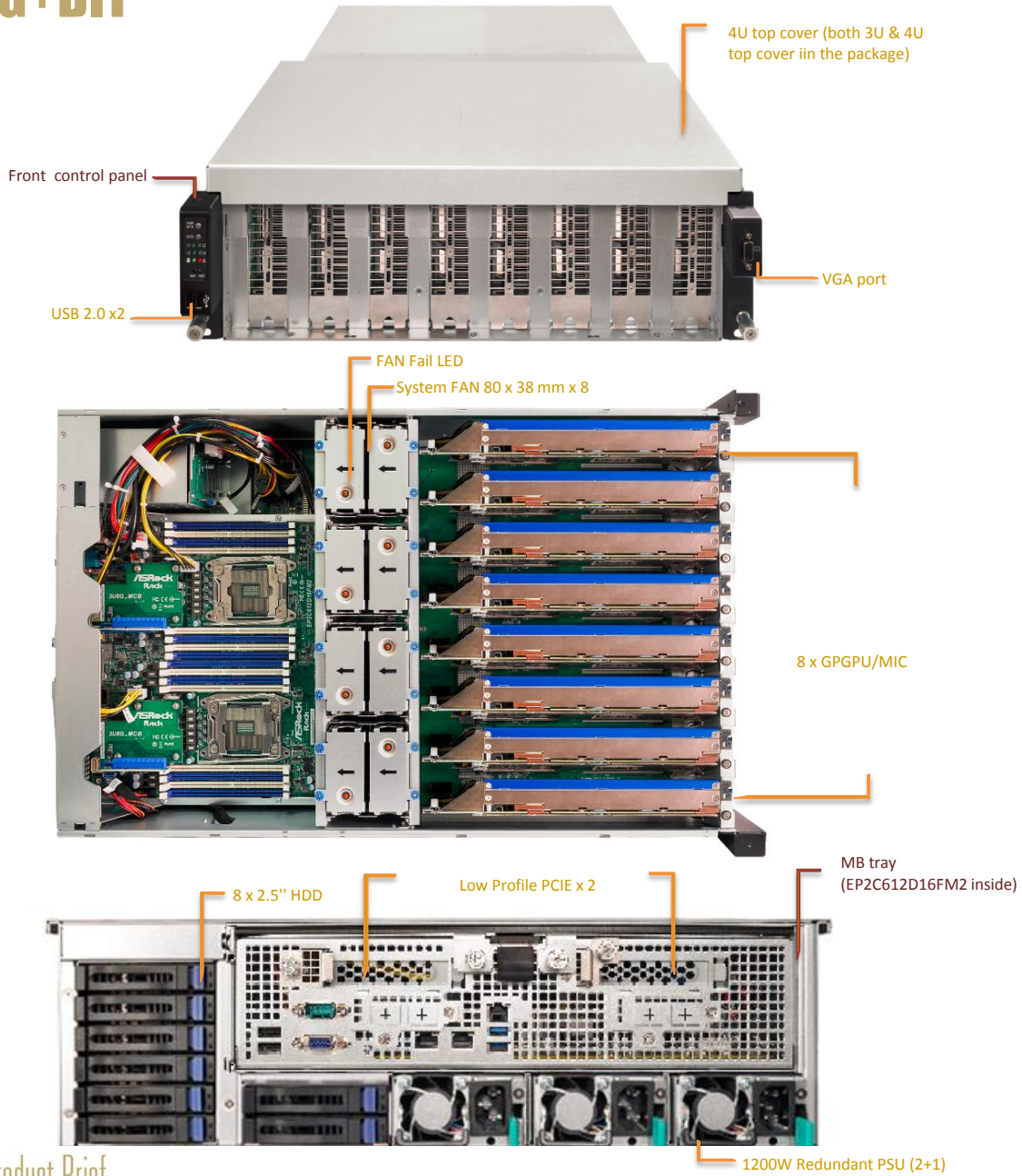




3U8G+BIT



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 8 x GPGPU/MIC card or 8 x GPGPU/MIC
- Supports Intel i350 Dual GLAN
- Supports 8 x SATA3 6.0 Gb/s or 8 x SAS 12 Gb/s Hot Swap Bay
- 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	- 3U8G+ 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
GPGPU card	
GPGPU Watts	- Max 300w /per card
Support GPGPU	- 8 x GPGPU card or 8 x GPGPU/MIC



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 v3/v4 series
Socket	- Dual Socket LGA 2011 R3
Chipset	- Intel® C612
System Memory	
Capacity	- 16 DIMM slots
Type	- Quad Channel memory technology
Voltage	- Supports 2133/2400 D117RDIMM and LRDIMM
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