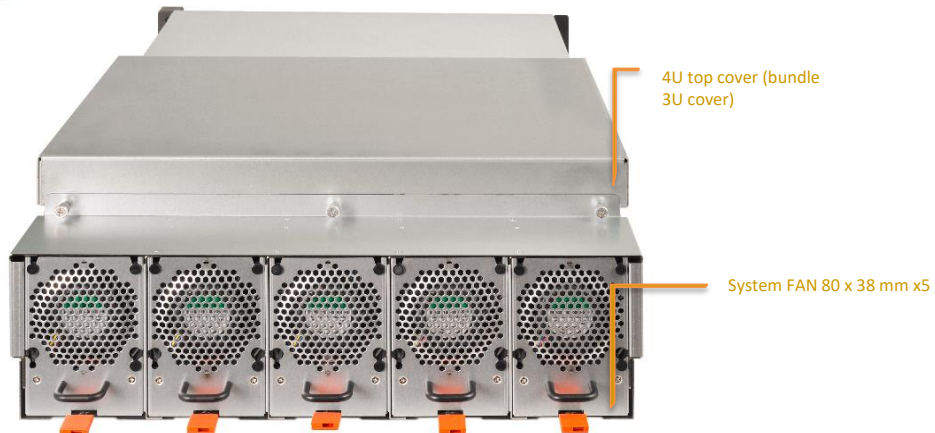
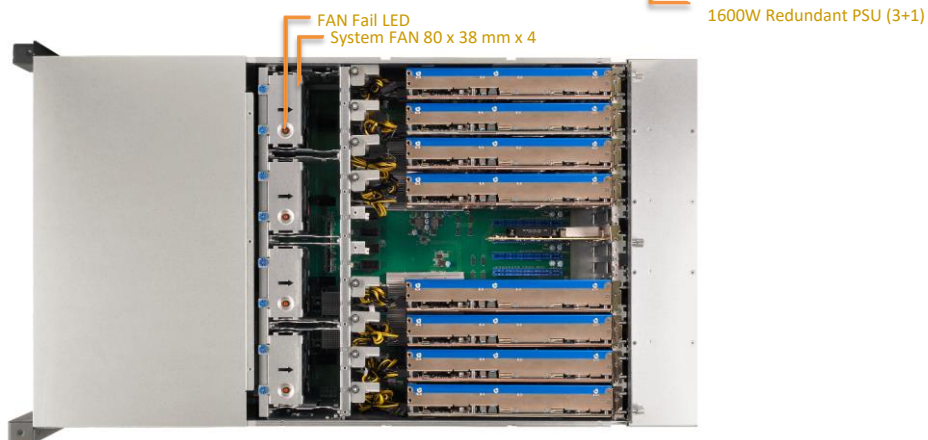
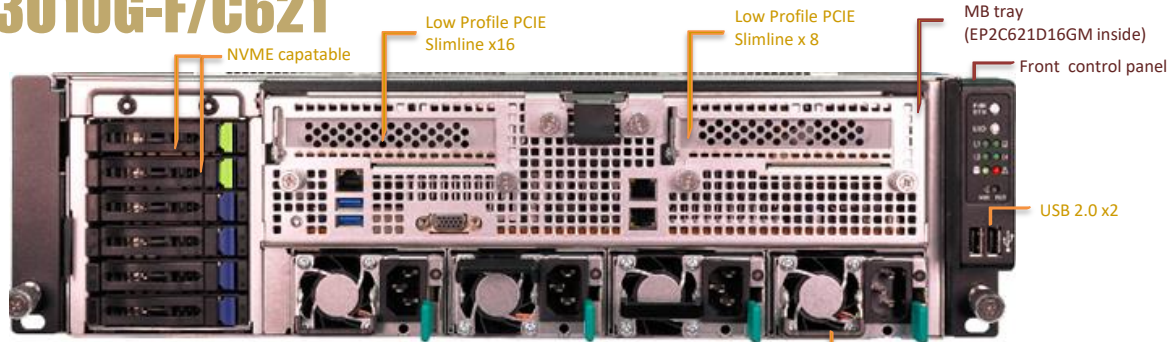




3U10G-F/C621



Product Brief

- 3U Rackmount with 1600W Redundant PSU (3+1)
- Dual Socket P (Purley) Intel® Xeon® Scalable Processors
- Support 16 x DDR4 DIMM slot, 2666/2400/2133 RDIMM, LR DIMM
- Supports 10 x GPGPU/MIC
- Supports Intel i350 Dual GLAN
- Supports 6 x 2.5" HDD tray (6 x SATA3/SAS or 4 x SATA3/SAS + 2 x NVME)
- Supports 2 x PCIe card



Product Specifications

System	
Form Factor	- 3U Rackmount
Chassis Model	- 3U10G-F/C621
Dimensions	-711mm X 430mm X 177.8mm (L/W/H, ear)
Support MB	- EATX, 12 x 10.56 inch (EP2C621D16GM)
System Front Panel	
Front control Panel	
Buttons	- Power button
	- UID button
	- Reset button
	- NMI button
LEDs	- Power LED
	- Identification LED
	- 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
MB tray(EP2C621D16GM inside)	
Stimline CONN	- 4 (for 2 x Low Profile PCIE card (one x8 , another x16)
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	- 6 x 2.5" HDD tray (6 x SATA3/SAS or 4 x SATA3/SAS + 2 x NVME*) * HDD4 and HDD5 trays support NVMe HDDs.
Power Supply	
Type	- 4 (3+1), Redundant
Output Watts	- 1600W, Platinum@ 200Vac-240Vac
System Fan	
Fan	- 80 x 38 mm x 9 (4 center + 5 rear)
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 8796 x 2
Topology	-Single Root Topology -Micro card connector vertical(80pin) x4 for IPB
GPGPU card	
GPGPU Watts	- Max 300w /per card
Support GPGPU	- 10 x GPGPU/MIC card
Expansion Slot	
PCIE/GPGPU Card	- Front Panel: 16 single-width / 8 x double-width cards
	- Rear Panel: 2 x PCIE cards* * PCIE cards and mezzanine cards share the same slots. Install one card at a time. * A riser card (4U10G_SL2P), pre-installed on the assembly, is required for PCIE card installation.
Mezzanine Card	- Rear Panel: 2 x Mezzanine cards (M599R / M41202R supported) (with a riser card (4U10G_SL2P))* * PCIE cards and mezzanine cards share the same slots. Install one card at a time. * A mezzanine adapter card (4U10G_SL2M) and riser card (4U10G_SL2P), preinstalled on the assembly, are required for mezzanine card installation



Motherboard	EP2C621D16GM
MB Physical Status	
Form Factor	- SSI CEB
Dimensions	- 12" x 10.5" (30.5 cm x 26.7 cm)
Processor System	
CPU	- Supports Intel® Xeon® Scalable Processors
Socket	- Dual Socket P, LGA3647
Chipset	- C621
System Memory	
Capacity	- 16 DIMM slots
Type	- 6 Channel DDR4 memory technology - 2666/2400/2133 R DIMM/LR DIMM
Voltage	- 1.2V
Storage	
SATA Controller	- Intel C621: 8 x SATA3
M.2	- 1 (from sSATA0 or PCIE(x4))
Slimline	- 1 x8 from CPU1 - 2 x8 from CPU2 - 1 x8 from DMI(x4) + PCH (x4)
Ethernet	
Interface	- 1000 /100 /10 Mbps
LAN Controller	- 2 x RJ45 GLAN by Intel i350 - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI
Management	
BMC Controller	- ASPEED AST2500
IPMI Dedicated LAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog - NMI
Graphics	
Controller	- ASPEED AST2500
VRAM	- DDR4 4GB
Rear Panel I/O	
VGA Port	- 1 x D-Sub
USB 3.0 Port	-2
Lan Port	2 + 1 (IPMI) Lan port (RJ45) - LAN Ports with LED (ACT/LINK LED and SPEED LED)
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
Front Panel	- 1 (RST, PWRBTN, HDDLED, PWRLED)
Front VGA Header	-1
Fan Header	- 2 x CPU Fan, 2x system Fan (6-pin)
ATX Power	- 1 (24-pin) + 2 (8-pin)
M.2	- 1 (2242/2280, support PCIE(x4) or SATA3))

TR1	-1
ME/SPS Recovery	-1
Clear CMOS	-1
BMC_SMB	-1
PSU_SMB1	-1
NMI Button Header	-1
OH/FanFail LED	- 1 (only Fan Fail LED)
Front LED	-1
USB2.0 Header	-1
COM Header	-1
System BIOS	
BIOS Type	- 256Mb AMI UEFI Legal BIOS
BIOS Features	- Plug and Play (PnP)
	- 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: CPU1/2, VCCM_AB/CD/EF/GH, 3V/5V/ 12V, +1.05V_PCH, +BAT, 3VSB, 5VSB