

ASRock 2U4N-F/C621-M3, Rack 2U, 4xDP node, Intel Xeon Scalable, 4xSFF/node, OCP mezz., Red. PSU, IPMI

Part number: 2U4N-F/C621-M3



Chassis Form Factor	Rack 2U
# of systems (nodes)	4
CPU Socket	LGA 3647 (Socket P)
# of CPU's (per node)	2
Supported CPU's	Intel Xeon Scalable Processors
Memory Type	DDR4 ECC RDIMM DDR4 ECC LRDIMM
# of DIMM's (per node)	16
# of 2.5 hot-swap bays (per node)	4
# of PCIe x16 3.0 (per node)	2
I/O expansions	OCP 3.0 PCIe3.0 x 16 mezzanine card
Power Supply	Redundant
PSU Wattage	1600W

2U4N-F/C621-M3

- 2U chassis with 4 node support 16x 2.5" HDD, 1600W Redundant (1+1) PSU
- Dual Socket Intel Xeon Scalable Processors and 2nd Gen Intel Xeon Scalable Processors
- Supports Six channel DDR4 2666/2400 RDIMM, LRDIMM, 16 x DIMM slots
- Supports 4 x 2.5" HDD/SSD per node (all SATA or 2 x NVME + 2 x SATA)
- Supports 2 x PCIe3.0 x 16 per node
- Integrated IPMI 2.0 and KVM with Dedicated LAN
- Supports OCP 3.0 PCIe3.0 x 16 mezzanine card

Specifications

System

Form Factor	- 2U Rackmount
Chassis Model	- 2U4N-F
Dimensions	- 820mm X 442.2mm X 86.6mm
Support MB	- Half, 20"x6.5" (EP2C621D16HM2-M3 x 4)

Front Panel

Buttons	- Power On/Standby button(per node) in the front - System reset button(per node) in the front - UID button(per node) in the rear
LEDs	- HDD Act/Err/Locate LED - Power LED (Front Panel per Node) - UID LED (Front Panel per Node)
I/O Ports	- 1 x USB 2.0 ports(per node)
Rear IO	
USB 3.0	- 2
VGA	- 1 x mini Display port (need to bundle ASRockRack special cable for VGA)
Lan Port	- 1 (IPMI) Lan port (RJ45) - LAN Ports with LED (ACT/LINK LED and SPEED LED)
External Drive Bay / Storage	
Front Side Drive Bay	- 4x 2.5" HDD/SSD per node (all SATA or 2 x NVME + 2 x SATA)
Output Watts	- 2 (1+1) 1600W Redundant
Efficiency	- Platinum
Front	- 40x56mm x16
Physical Status	
Form Factor	- Half Width
Dimensions	- 20" x 6.5 " (50cm x 16.5 cm)
Processor System	
CPU	- Intel® Xeon® Scalable Processors and 2 nd Gen Intel® Xeon® Scalable Processors
Socket	- Dual Socket P, LGA3647 *Please use narrow type CPU Cooler
Chipset	- Intel C621
System Memory	
Capacity	- 16 DIMM slots
Type	- Six Channel memory technology - Supports 2666/2400 RDIMM and LRDIMM
DIMM Size Per DIMM	- RDIMM: 32GB, 16GB, 8GB, 4GB ; LRDIMM: 64GB, 32GB
Voltage	- 1.2V
Expansion Slot	
PCIe 3.0 x 16	- 2 slots (Low Profile card)
Storage	
SATA Controller	- Intel® C621: 1x M.2 port
Management	
BMC Controller	- ASPEED AST2500
IPMI Dedicated GLAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog - NMI
Graphics	
Controller	- ASPEED AST2500
VRAM	- DDR3 32MB
Rear Panel I/O	
VGA Port	- 1 x mini Display port (MiniDisplay port, Dsub to miniDisplay cable)

USB 3.2 Gen1 Port	- 2
Lan Port	- 1 (IPMI) Lan port (RJ45) - LAN Ports with LED (ACT/LINK LED and SPEED LED)
Internal Connector	
M.2	- 1 (support 2280 only)
Auxiliary Panel Header	- 1 (includes chassis intrusion, location button & LED, front LAN LED) - 1 (includes chassis intrusion, location button & LED)
TPM Header	- 1
IPMB Header	- 1
Fan Header	- 4x system Fan (6-pin)
ATX Power	- 2 (8-pin)
USB 2.0 Header	- 1 (support 1 USB 2.0)
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
Fan	- CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Rear/Front Fan Multi-Speed Control
Voltage	- Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore, DRAM, 1.05V_PCH, +BAT, 3VSB, 5VSB
Support OS	
OS	Microsoft® Windows® (Server OS) - Server 2012 R2 (64 bit) - Server 2016 (64 bit) Linux - RedHat Enterprise Linux Server 6.8 (64 bit) / 7.2 (64 bit) - CentOS 6.8 (64 bit) / 7.2 (64 bit) - SUSE Enterprise Linux Server 11 SP4 (64 bit) /12 SP3 (64 bit) - FreeBSD 11 (64 bit) - Ubuntu 16.04/15.10 (64 bit) Virtual: - VMWare® ESXi 6.5 * Please refer to our website for the latest OS support list. * Before installing the Linux OS, please first enter the BIOS settings, go to "Advanced" > "Chipset Configuration" and set "IGPU Multi-Monitor" option to "Disabled".
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C

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