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4U8G-ICX2/2T

- 4U Rackmount with 3+1 Redundant 1600W CRPS
- Dual Socket (LGA 4189), support 3rd Gen Intel® Xeon® Scalable Processors
- 16+16 DIMM slots, support DDR4 RDIMM/ LRDIMM/ NVDIMM
- 12 hot-swap 3.5" drive bays
- Supports up to 8 dual-slot PCIe4.0 x16
- Front side 1 FHHL PCIe3.0 x4 and OCP NIC 3.0, optional OCP2.0 mezzanine cards support
- On-board dual 10GbE RJ45 by Intel® X710-AT2



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Specifications

System	
Form Factor	4U Rackmount
Dimensions	438mmx 845mmx 176.5mm (w/ fans)
Support MB	SP2C621D32GM-2T
Front Panel	
Buttons	Power button w/ LED Reset button NMI button UID button w/ LED
LEDs	System fault LED HDD activity LED
I/O Ports	1 DB15 (VGA) 4 USB Type-A (USB3.2 Gen1) 2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear Panel I/O
IPMI LAN	1 dedicated IPMI LAN, shares with Rear Panel I/O
External Drive Bay / Storage	
Front Side Drive Bay	12 Hot-swap 3.5" drive bays, supports 2 SATA drives; additional 4-8 SATA drives possible by cable reconfiguration supports 8 SAS/SATA drives by additional PCIe 8-port RAID/HBA card
Front Side Backplane	three 4-port NVMe*/SAS/SATA passive backplanes * Supports up to 2 NVMe drives with alternative cable configuration, front Side PCIe and OCP3 slots will be disabled.
Internal Side	1 M-key (PCIe3.0 x4/SATA) supports 22110/2280 form factor, 1 optional M-key (PCIe3.0 x4/SATA) supports 22110/2280 form factor
Power Supply	
Type	3+1 CRPS
Output Watts	1600W
Efficiency	80-PLUS Platinum
AC Input	Lowline: 100-127V, Highline: 200-240V
System Fan	
Fan	5 Middle Hot-swap 80x80mm fans, 5 Rear Hot-swap 80x38mm fans
Fail LED	Abnormal(DC on): LED ON (Solid Red) Normal: LED OFF
GGPU card	

GPGPU Watts	max. 350W per card
Support GPGPU	NVIDIA® A100 PCIe
Processor System	
CPU	Support Dual 3 rd Gen Intel® Xeon® Scalable Processors
Socket	1+1 Socket P+ (LGA 4189)
Thermal Design Power	270W
Chipset	C621A
System Memory	
Supported DIMM Quantity	16+16 DIMM slots (2DPC)
Supported Type	DDR4 288-pin RDIMM, LRDIMM, NVDIMM
Max. Capacity per DIMM	RDIMM: up to 64GB, LRDIMM: up to 256GB, NVDIMM: up to 32GB
Max. DIMM Frequency	RDIMM/ LRDIMM: up to 3200 MHz NVDIMM: up to 2666 MHz
Voltage	1.2V
PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	Rear: 8 FHFL dual-slot PCIe4.0 x16 via 4UXG_SWB
PCIe x 4	Front*: 1 FHHL PCIe3.0 x4 via 4UXG_SL2P, 1 OCP3.0 PCIe3.0 x4 via 4UXG_SL2OCP3 * Front Side PCIe and OCP3 slots will be disabled when NVMe drives alternative cable configuration is enabled.
TPM	
TPM support	1 (17-pin, LPC)
Server Management	
BMC Controller	ASPEED AST2500: IPMI2.0 with iKVM and vMedia support
IPMI Dedicated GLAN	1 Realtek RTL8211E for dedicated management GLAN
Graphics	
Controller	ASPEED AST2500
VRAM	DDR4 4GB
Rear I/O	
UID Button/LED	UID button w/ LED
Other Button/LED	Power button w/ LED Reset button NMI button System fault LED HDD activity LED
VGA Port	1 DB15 (VGA)
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, shares with front panel 1 dedicated IPMI LAN, shares with front panel
System BIOS	
BIOS Type	32MB AMI UEFI Legal BIOS
BIOS Features	Plug and Play (PnP), ACPI 2.0 Compliance Wake Up Events, SMBIOS 2.8.0, ASRock Rack Instant Flash
Hardware Monitor	
Temperature	CPU Temperature Sensing System Temperature Sensing Card Side Temperature Sensing
Fan	Middle/ Rear Fan Tachometer Middle/ Rear Fan Multi-Speed Control
Voltage	Vsoc,Vcpu, VCCM, VPPM, +1.8V, +3V,+5V, +12V, BAT, +1.8VSB, +3VSB, +5VSB
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	- Non operation humidity: 20% ~ 90% (Non condensing)

The specification is subject to change without notice in advance. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.