6U8M-GENOA2 MI300X

- 6U Rackmount with 4+4, 80-PLUS Titanium, 3000W CRPS
- AMD Instinct™ MI300X 8-GPU with Infinity Fabric™ Links
- Dual Socket SP5 (LGA 6096), supports AMD EPYC™ 9005*/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 12+12 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 8 HHHL PCIe5.0 x16, 3 FHHL PCIe5.0 x16
- 12 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
- Supports 2 M.2 (PCIe3.0 x4 or SATA 6Gb/s)
- 2 RJ45 (1GbE) by Intel® i350-AM2
- Remote management (IPMI)

Specifications

System	
Form Factor	6U Rackmount
Dimensions	930 x 448 x 264.7mm (36.6" x 17.6" x 10.4")
Support Motherboard	GENOA2D24G-2L+
Front Panel	
Buttons	Power button w/ LED, Reset button, NMI button, UID button
LEDs	System fault LED, HDD activity LED
I/O Ports	2 RJ45 (1GbE) by Intel i350, shares with Rear IO 1 dedicated IPMI, shares with Rear IO 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
External Drive Bay / Storage	
Front Side Drive Bay	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe switch 4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
Internal Side	M2_1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0] M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]
Power Supply	
Type	4+4 CRPS
Output Watts	3002.4W @ 220-240Vac input, 2900W @200-220Vac input
Efficiency	80-PLUS Titanium

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AC Input	200-240Vrms, 50/60Hz
System Fan	
Fan	21 PWM 80x80 mm fans
Processor System	
GPU	AMD Instinct™ MI300X 8-GPU with Infinity Fabric™ Links
CPU	Supports AMD EPYC™ 9005*/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors *A BIOS update is required to support AMD EPYC™ 9005 series processors
Socket	Dual Socket SP5 (LGA 6096)
Thermal Design Power	Up to 400W
Chipset	System on Chip
System Memory	
Supported DIMM Quantity	12+12 DIMM slots (1DPC)
Supported Type	Supports DDR5 288-pin RDIMM, RDIMM-3DS
Max. Capacity per DIMM	RDIMM: 128GB (2Rx4) RDIMM-3DS: 256GB (2Rx4)
Max. DIMM Frequency	4800 MHz
Voltage	1.1V
PCIe Expansion Slots	
PCIe x 16	Rear: 8 HHHL PCIe5.0 x16 3 FHHL PCIe5.0 x16
Ethernet	
Additional Ethernet Controller	Intel® i350: 2 RJ45 (1GbE)
Server Management	
BMC Controller	ASPEED AST2600
Dedicated IPMI LAN	1 Realtek RTL8211F for dedicated management GLAN
Graphics	
Controller	ASPEED AST2600
VRAM	DDR4 512MB
Rear I/O	
UID Button/LED	1 UID button
Other Button/LED	1 PWR button, 1 RST button, 1 NMI button, 1 HDD LED, 1 SYS LED
Video Port	1 DB15 (VGA)
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)

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RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel
System BIOS	
BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
BIOS Features	ASRock Rack Instant Flash, ACPI 6.4 and about compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play(PnP)
Hardware Monitor	
Temperature	CPU, MB, Card side Temperature Sensing
Fan	Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) Fan Multi-Speed Control
Voltage	P0_VDDCR_CPU0, P0_VDDCR_CPU1, P0_VDDCR_SOC, P0_VDD_18_DUAL, P0_VDD_11_S3, P0_VDDIO, P1_VDDCR_CPU0, P1_VDDCR_CPU1, P1_VDDCR_SOC, P1_VDD_18_DUAL, P1_VDD_11_S3, P1_VDDIO, +BAT, +12V, +3VSB, +5VSB
Environment	
Temperature	Operating temperature: 10°C ~ 35°C / Non-operating temperature: -40°C ~ 70°C
Humidity	Non-operating humidity: 20% ~ 90% (non-condensing)

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