

Intel® Xeon® 6 Processors

Leading Performance and Efficiency for Diverse Workloads

General Purpose Storage/All-flash NVMe/GPU Servers/Server Motherboards



intel
xeon

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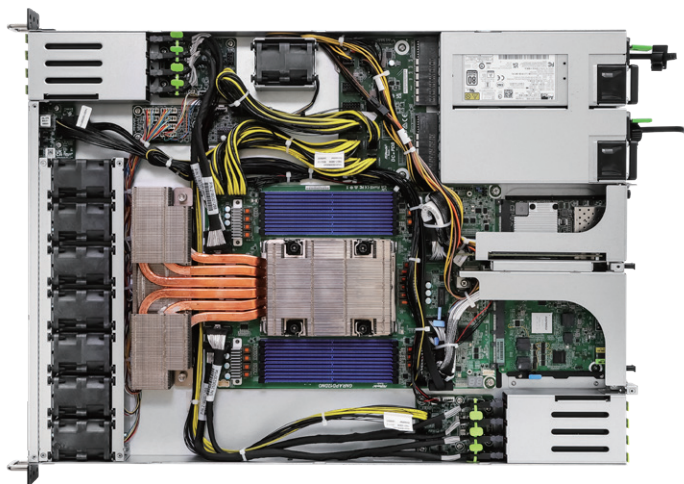
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1U8E1S-GNRAPDNO



Application

- All-flash Storage Server
- Content Delivery Network



OCP NIC 3.0



Storage



PCI-E 5.0

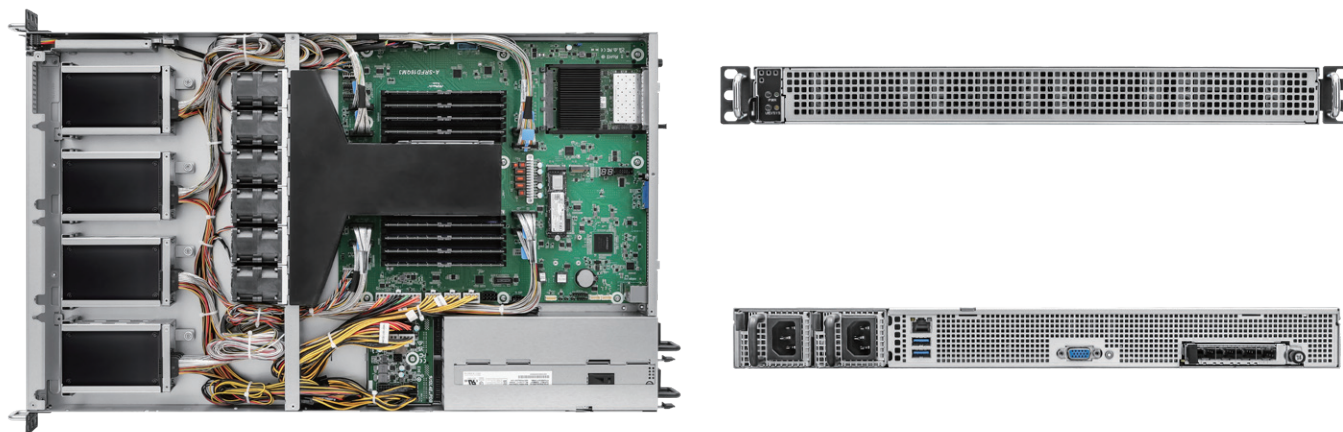


DDR5



1U8E1S-GNRAPDNO		
CPU	Socket	1 Socket BR (LGA 7592) Intel® Xeon® 6900P-series processors
DIMM	Slot	12 DIMM slots (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	600 x 438 x 43.5 mm (23.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/LED, UID button, Reset button
	LEDs	System fault LED, HDD activity LED
Rear IO	RJ45	1 dedicated IPMI on DC-SCM 2.0 module (DC_SCM_2700)
	USB	2 Type-A (USB3.2 Gen1) on DC-SCM 2.0 module (DC_SCM_2700)
	Others	1 DB15 (VGA), 1 UID button w/ LED, 1 Type-C (COM) on DC-SCM 2.0 module (DC_SCM_2700)
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 1 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay / Storage	External	Front: 4 Hot-swap E1.S (PCIe5.0 x4) drive bays Rear: 4 Hot-swap E1.S (PCIe5.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x4), supports 2280 form factor
Power Supply	Module	1+1, 80-PLUS Titanium, 1600W CRPS
System Cooling	Fan	8 fixed 40x56 mm fans
Management		ASPEED BMC AST2700 on DC-SCM 2.0 module (DC_SCM_2700)
Security		TPM (13-pin, SPI) by optional accessory

1U16E3S-SRF



Application

- Software-defined Storage
- Content Delivery Network



OCP NIC 3.0



Storage



PCI-E 5.0

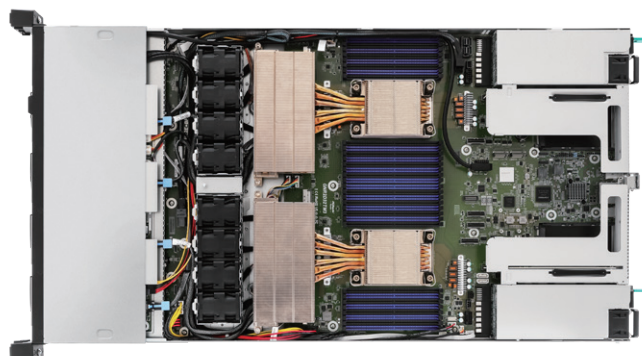


DDR5



1U16E3S-SRF		
CPU	Socket	1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16 DIMM slots (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	710 x 430 x 43.5mm (27.9" x 16.9" x 1.7")
Front Panel	Buttons	Power, UID
	LEDs	System alarm LED, Power status LED
Rear IO	RJ45	1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Drive Bay / Storage	Internal	16 fixed E3.S (PCIe5.0 x4) drive bay, supports 7.5mm thickness
		2 M-key (PCIe5.0 x2), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 1000W RPSU
System Cooling	Fan	6 PWM Easy-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U4L4E-GNR2/EVAC



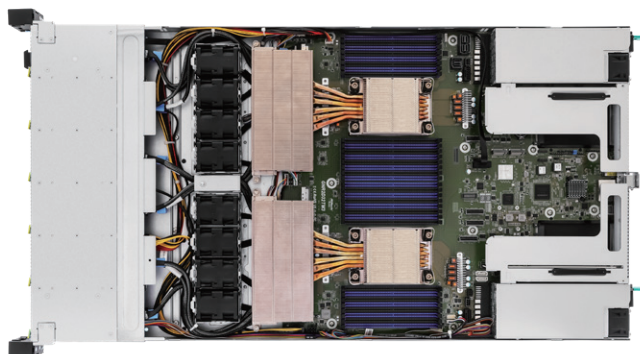
Application

- Virtualization
- Web and Microservices
- Software-defined storage



1U4L4E-GNR2/EVAC		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	830 x 438 x 43.5 mm (32.7" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset
	LEDs	System fault LED, HDD activity LED, LAN1 LED, LAN2 LED
	Others	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
	Others	1 Mini DisplayPort (VGA), 1 UID button w/ LED, 2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	2 FHHL single-slot PCIe5.0 x16
		2 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay / Storage	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	4 hot-swap 3.5"/2.5" SATA drive bays 2 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Power Supply	Module	1+1, 80-PLUS Titanium, 2000W CRPS
System Cooling	Fan	8 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI)

1U12E-GNR2/EVAC



Application

- Virtualization
- High-Performance Storage
- Data Analytics
- Software-defined storage



Storage



PCI-E 5.0



DDR5

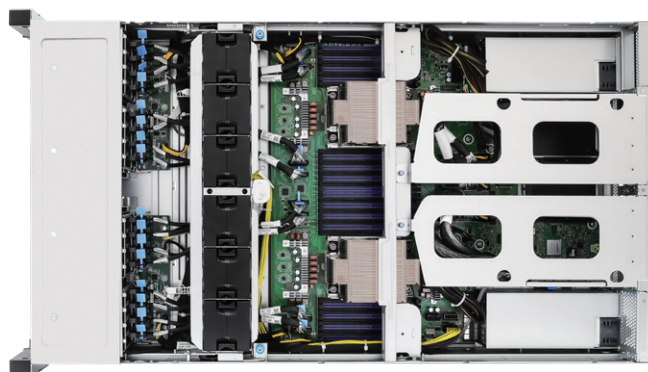


OCP NIC 3.0



1U12E-GNR2/EVAC		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	830 x 438 x 43.5 mm (32.7" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button, NMI button
	LEDs	System fault LED, HDD activity LED, LAN1 LED, LAN2 LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel i350 1 dedicated IPMI
	Others	1 Mini DisplayPort (VGA), 1 UID button w/ LED, 2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	2 FHHL single-slot PCIe5.0 x16
		2 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay / Storage	External	12 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Power Supply	Module	1+1, 80-PLUS Titanium, 2000W CRPS
System Cooling	Fan	8 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI)

2U16E3S-GNR2FLW



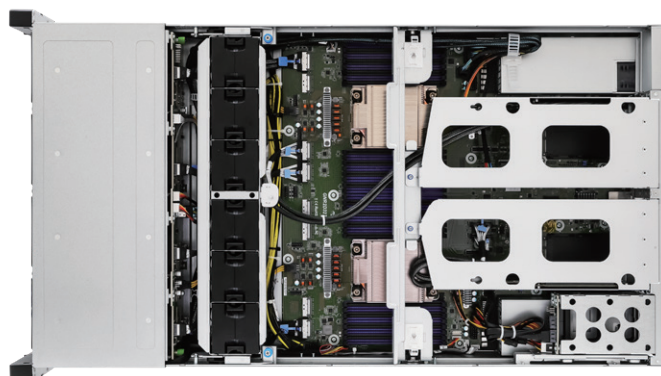
Application

- Networking
- E-commerce
- Software-defined Storage



2U16E3S-GNR2FLW		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
DIMM	Slot	16+16 DIMM slots (2DPC)
System Physical	Form Factor	2U Rackmount
Status	Chassis Dimension	820 x 438 x 87.5mm (32.3" x 17.2" x 3.4")
Front Panel	Buttons	Power w/ LED, ID
	LEDs	System alarm LED
Rear IO	I/O	2 Type-A (USB3.2 Gen1), 1 DB15 (VGA)
	RJ45	1 dedicated IPMI on DC-SCM 2.0 module
	USB	2 Type-A (USB3.2 Gen1) on DC-SCM 2.0 module
	Others	1 Type-C (COM), 1 UID button w/ LED, 1 Mini-DisplayPort (VGA), 1 Power button on DC-SCM 2.0 module
Expansion Slots	Rear	2 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Drive Bay / Storage	Internal	16 Hot-swap E3.S (PCIe5.0 x4) drive bays
		1 M-key (PCIe5.0 x4), supports 22110/2280/2260/2242 form factor [CPU0] 1 M-key (PCIe5.0 x4), supports 22110/2280/2260/2242 form factor [CPU1]
Power Supply	Module	1+1, 80-PLUS Titanium, 2700W RPSU
System Cooling	Fan	6 PWM Hot-swap 60x56 mm fans
Management		ASPEED AST2700 on DC-SCM 2.0 module
Security		TPM (13-pin, SPI) by optional accessory

2U12L4E-2S-GNR2



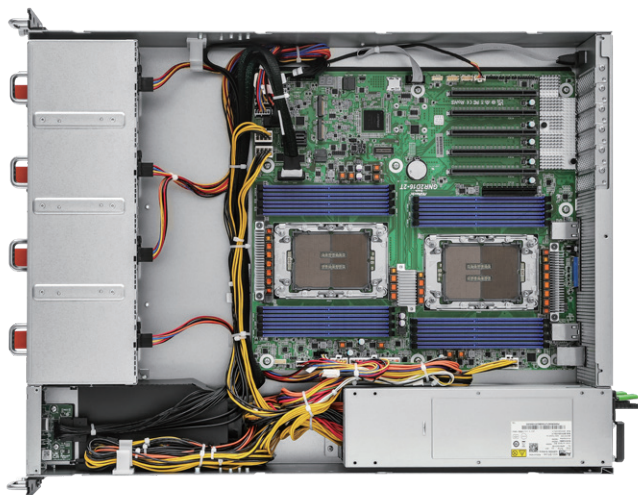
Application

- Virtualization
- Enterprise Storage
- Data Analytics
- Software-defined storage



2U12L4E-2S-GNR2		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	820 x 438 x 87.5 mm (32.3" x 17.2" x 3.5")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button
	LEDs	System fault LED, HDD activity LED, LAN1 LED, LAN2 LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
	Others	1 Mini DisplayPort (VGA), 1 UID button w/ LED, 2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	4 FHHL single-slot PCIe5.0 x16 2 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay / Storage	External	Front: 4 hot-swap 3.5"/2.5" NVMe (PCIe5.0 x4)/SATA drive bays 8 hot-swap 3.5"/2.5" SATA drive bays Rear: 2 hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Power Supply	Module	1+1, 80-PLUS Titanium, 2700W CRPS
System Cooling	Fan	6 PWM Hot-swap 60x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI)

2U2E-GNR2/2T



Application

- Web Hosting
- Networking
- Private Cloud Server



10Gbase-T



Storage



PCI-E 5.0

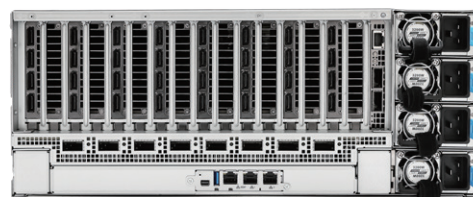


DDR5



		2U2E-GNR2/2T
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
DIMM	Slot	8+8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	580 x 438 x 87 mm (22.8" x 17.2" x 3.4")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 1 dedicated IPMI
Expansion Slots	Others	UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 Type-A (USB3.2 Gen1)
	Rear	5 HHHL single-slot PCIe5.0 x16 1 HHHL single-slot PCIe5.0 x8
Drive Bay / Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	4 PWM Hot-swap 80x56 mm fans
		1 PWM fixed 40x28 mm fan
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

4UXGM-GNR2 CX8



Application

- AI Fine-tuning and Inferencing
- Digital Twins
- Agentic AI
- Visual Computing



GPGPU



PCI-E 5.0



DDR5



4UXGM-GNR2 CX8		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16+16 DDR5 (2DPC)
System	Form Factor	4U Rackmount, NVIDIA MGX™ 4U Compliant
Physical Status	Chassis Dimension	800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED, LAN1/LAN2 activity LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	1 dedicated IPMI
	Others	UID button, Reset button, Power button, 1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA)
Expansion Slots	Rear	8 FHFL dual-slot PCIe5.0 x16 1 FHHL PCIe5.0 x16
Drive Bay / Storage	External	16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width
	Internal	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0]
		1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]
Networking	OSFP	8 QSFP112 (400Gb/s) ports via NVIDIA® ConnectX®-8
Power Supply	Module	3+1, 80-PLUS Titanium, 3200W CRPS
System Cooling	Fan	10 Hot-swap 80x80 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

4UXGM-GNR2



Application

- High Performance Computing
- Data Analytics
- AI Inference



GPGPU



PCI-E 5.0



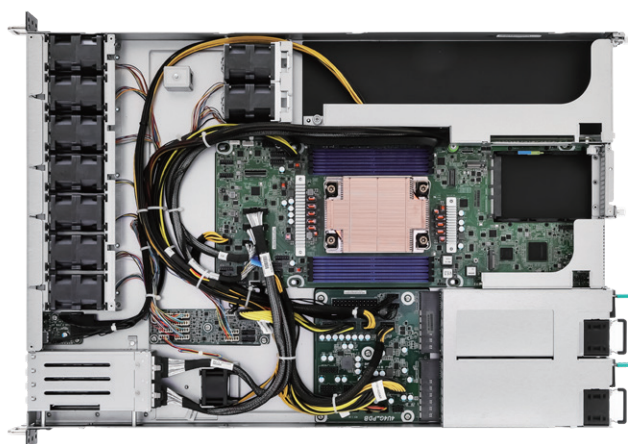
DDR5



4UXGM-GNR2		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	16+16 DDR5 (2DPC)
System	Form Factor	4U Rackmount, NVIDIA MGX™ 4U Compliant
Physical Status	Chassis Dimension	800 x 438 x 176.5 mm (31.5" x 17.2" x 6.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED, LAN1/LAN2 activity LED
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	1 dedicated IPMI
Expansion Slots	Others	UID button, Reset button, Power button, 1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA)
	Rear	8 FHFL dual-slot PCIe5.0 x16 5 FHHL PCIe5.0 x16 1 HHHH PCIe5.0 x16
Drive Bay / Storage	External	16 Hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width
	Internal	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0] 1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]
Power Supply	Module	3+1, 80-PLUS Titanium, 3200W CRPS
System Cooling	Fan	10 Hot-swap 80x80 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U1G2E-GNR

1U1G4E1S-GNR



1U1G2E-GNR



1U1G4E1S-GNR



Application

- Edge AI
- Data Visualization



GPGPU



PCI-E 5.0



DDR5



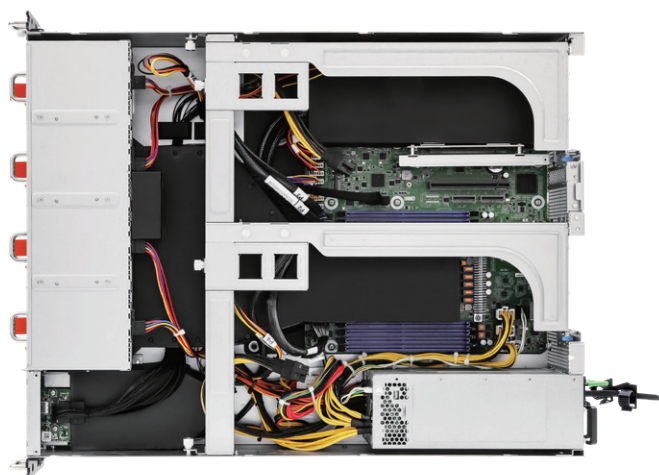
OCP NIC 3.0



		1U1G2E-GNR	1U1G4E1S-GNR
CPU	Socket	1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors	
DIMM	Slot	8 DDR5 288-pin (1DPC)	
System	Form Factor	1U Rackmount	
Physical Status	Chassis Dimension	650 x 438.0 x 43.5 mm (25.6" x 17.2" x 1.7")	
Front Panel	Buttons	Power button w/ LED, System Reset	
	LEDs	System fault, UID LED, HDD activity LED	
Rear I/O	I/O	2 Type-A (USB3.2 Gen1)	
	RJ45	1 dedicated IPMI	
	Others	1 UID button w/ LED, 1 Mini DisplayPort (VGA), 2 Type-A (USB3.2 Gen1), 1 dedicated IPMI	
Expansion Slots	Rear	1 FHFL dual-slot PCIe5.0 x16	
		1 HHL single-slot PCIe5.0 x16	
		1 OCP NIC 3.0 (PCIe5.0 x16)	
Drive Bay / Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays	4 Hot-swap E1.S (PCIe5.0 x4) drive bays
	Internal	M2_1 (PCIe5.0 / CXL2.0 x4), supports 2280 form factor M2_2 (PCIe5.0 / CXL2.0 x4), supports 2210 form factor	
Power Supply	Module	1+1, 80-PLUS Titanium, 1600W CRPS	
System Cooling	Fan	9 PWM Hot-swap 40x56 mm fans	
		1 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM (13-pin, SPI) by optional accessory	

2U2G-GNR

2U2G-GNR/HPR



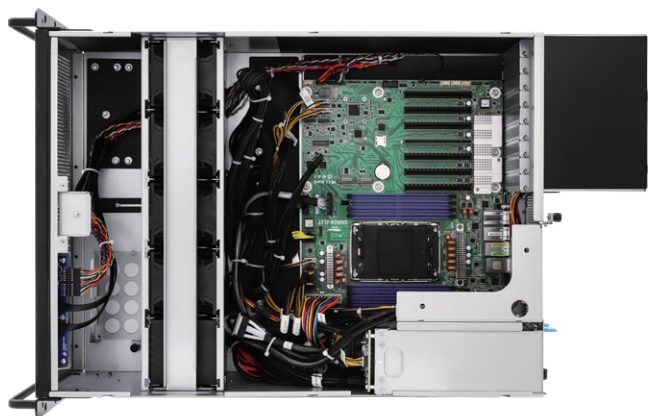
Application

- AI Inference
- Edge AI
- Data Analytics



		2U2G-GNR	2U2G-GNR/HPR
CPU	Socket	1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors	
	TDP	Up to 350W	
DIMM	Slot	8 DDR5 288-pin (1DPC)	
System	Form Factor	2U Rackmount	
Physical Status	Chassis Dimension	580 x 438 x 87 mm (22.8" x 17.2" x 3.4")	
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System reset	
	LEDs	HDD activity LED, System event LED	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	1 dedicated IPMI	
	Others	2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)	
Expansion Slots	Rear	2 FHFL dual-slot PCIe5.0 x16 1 HHHL single-slot PCIe5.0 x16	
	Internal	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays 2 M-key (PCIe5.0 x4), supports 2280 form factor	
Drive Bay / Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays	
Power Supply	Module	1+1, 80-PLUS Titanium, 2000W CRPS	1+1, 80-PLUS Titanium, 2700W CRPS
System Cooling	Fan	Front: 4 PWM hot-swap 80x56 mm fans, Middle: 1 PWM fixed 40x28 mm fan	
Management		ASPEED BMC AST2600	
Security		TPM (13-pin, SPI) by optional accessory	

4U4G-GNR/HPR



Application

- AI Inference
- Machine Learning
- Rendering



GPGPU



PCI-E 5.0



DDR5



10Gbase-T



4U4G-GNR/HPR		
CPU	Socket	1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	TDP	Up to 350W
DIMM	Slot	8 DDR5 288-pin (1DPC)
System	Form Factor	4U Rackmount
Physical Status	Chassis Dimension	710 x 430.4 x 174.8 mm (27.9" x 16.9" x 6.9" with GPU fans; 596mm or 23.5" in depth w/o GPU fans)
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, Reset button, NMI button
	LEDs	LAN activity LED, HDD activity LED, System event LED
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)
Expansion Slots	Rear	4 dual-slot or 7 single-slot FHFL PCIe5.0 x16 1 FHFL single-slot PCIe5.0 x8
	Internal	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor (includes cage for 2 fixed 2.5" drives)
Drive Bay / Storage	Module	2+1, 80-PLUS Titanium, 3200W CRPS
Power Supply	Fan	Middle: 4 PWM fixed 80x80mm fans Rear: 2 PWM fixed 80x80mm GPU fans
System Cooling		ASPEED BMC AST2600
Management		TPM (13-pin, SPI) by optional accessory
Security		

4U8G-GNR2

4U8G-GNR2/RF+ · 4U8G-GNR2/SUPER_4L



Application

- Big Data Analytics
- Machine Learning
- LLM Inference



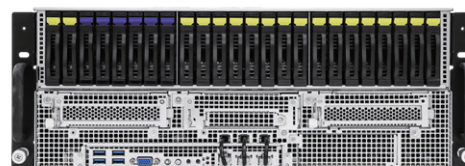
		4U8G-GNR2	4U8G-GNR2/RF+	4U8G-GNR2/SUPER_4L
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors		
	TDP	Up to 350W		
DIMM	Slot	16+16 DDR5 288-pin (2DPC)		
System	Form Factor	4U Rackmount		
Physical Status	Chassis Dimension	786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")	867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")	
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button		
	LEDs	System fault LED, HDD activity LED		
	I/O	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)		
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel		
	Others	2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)		
Expansion Slots	Front	1 FHHL PCIe5.0 x16 1 FHHL PCIe5.0 x8		N/A
	Rear	8 FHFL dual-slot PCIe5.0 x16		8 FHFL dual-slot PCIe5.0 x16 1 FHFL PCIe5.0 x16 1 FHFL PCIe5.0 x8
Drive Bay / Storage	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or 24 hot-swap 2.5" SATA/SAS ^{Note1} drive bays		4 Hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4) / SATA/SAS ^{Note2} drive bays
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]		
Power Supply	Module	3+1, 80-PLUS Titanium, 2700W CRPS		
System Cooling	Fan	5 middle hot-swap 80x80 mm fans (20400/18000 RPM)	5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM)	
Management		ASPEED BMC AST2600		
Security		TPM (13-pin, SPI) by optional accessory		

Note1: Additional RAID/HBA card required to support the 24 x 2.5" SATA/SAS drive bays

Note2: Additional RAID/HBA card required to support the 4x SATA/SAS drive bays

4U10G-GNR2

4U10G-GNR2/RF+



Application

- AI Real-time Inference
- Big Data Analytics
- Machine Learning

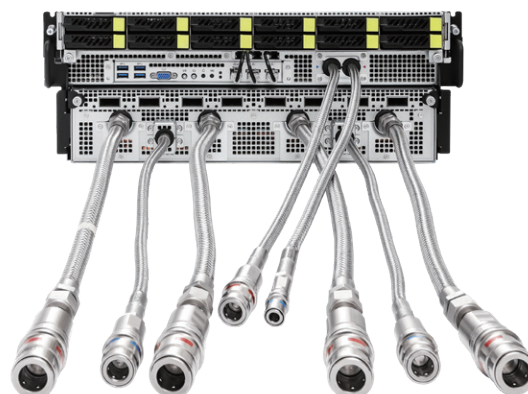


		4U10G-GNR2	4U10G-GNR2/RF+
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors	
	TDP	Up to 350W	
DIMM	Slot	16+16 DDR5 (2DPC)	
System	Form Factor	4U Rackmount	
Physical Status	Chassis Dimension	786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")	867 x 438 x 176.5 mm (34.1" x 17.2" x 6.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button	
	LEDs	System fault LED, HDD activity LED	
	I/O	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)	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel	
	Others	2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)	
Expansion Slots	Front	2 FHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)	
	Rear	10 FHFL dual-slot PCIe5.0 x16 (with PEX89104 PCIe Switch) 1 FHFL single-slot PCIe5.0 x16 (CPU direct link)	
Drive Bay / Storage	External	18 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays 6 Hot-swap 2.5" SATA/SAS ^{Note1} drive bays	
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]	
Power Supply	Module	3+1, 80-PLUS Titanium, 3200W CRPS	
System Cooling	Fan	5 middle hot-swap 80x80 mm fans (20400/18000 RPM)	5 middle + 5 rear hot-swap 80x80 mm fans (20400/18000 RPM)
Management		ASPEED BMC AST2600	
Security		TPM (13-pin, SPI) by optional accessory	

Note1: Additional RAID/HBA card required to support the 6x 2.5" SATA/SAS drive bays

4U16X-GNR2/ZC B300

4U16X-GNR2/DLC B300



Application

- AI Training and Inference
- LLM Training
- High Performance Computing



Liquid Cooling



GPGPU



PCI-E 5.0

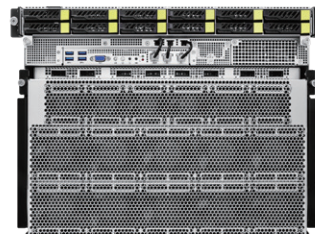


DDR5



		4U16X-GNR2/ZC B300	4U16X-GNR2/DLC B300
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors	
GPU	Supported GPU	NVIDIA® HGX™ B300 NVL8	
PCIe Switch	PCIe Switch	PEX89104	
DIMM	Slot	16+16 DIMM slots (2DPC)	
System	Form Factor	4U Rackmount	
Physical Status	Chassis Dimension	870 x 435 x 175 (34.3" x 17.1" x 6.9")	
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button	
	LEDs	System fault LED, HDD activity LED	
	I/O	2 RJ45 (1GbE) by Intel® i350-AM2, shares with Rear IO 1 dedicated IPMI, shares with Rear IO 4 Type-A (USB3.0 Gen1) 1 DB15 (VGA)	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2, shares with Front Panel 1 dedicated IPMI, shares with Front Panel	
	Others	UID button, 1 DB15 (VGA), 2 Type-A (USB3.0 Gen1)	
Expansion Slots	Rear	2 FHHL PCIe5.0 x16 from PCIe Switch	
Drive Bay / Storage	External	10 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe Switch] 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [CPU1] 1 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]	
	Internal		
Networking	OSFP	8 OSFP (800Gb/s) ports via NVIDIA® ConnectX®-8	
Power Supply	Module	5+5, 80-PLUS Titanium, 3000W CRPS	
System Cooling	Fan	2 PWM 80x80mm fans + 8 PWM 60x56mm fans	
Management		ASPEED BMC AST2600	
Security		TPM (13-pin, SPI) by optional accessory	

8U16X-GNRAP2 B300



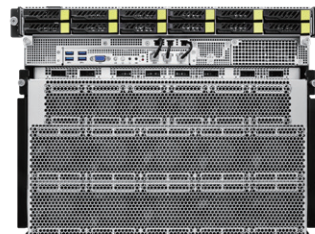
Application

- Generative AI and Virtual Assistants
- Hyperscale AI Research
- Large Scale AI Training



8U16X-GNRAP2 B300		
CPU	Socket	1+1 Socket BR (LGA 7529) Intel® Xeon® 6900P-series, 6900E-series processors
GPU	Supported GPU	NVIDIA® HGX™ B300 NVL8
PCIe Switch	PCIe Switch	PEX89144
DIMM	Slot	12+12 DIMM slots (1DPC)
System	Form Factor	8U Rackmount
Physical Status	Chassis Dimension	930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button
	LEDs	System fault LED, HDD activity LED
	I/O	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)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel
	Others	1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	4 FHHL PCIe5.0 x16
Drive Bay / Storage	External	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 CPU2
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU1] 1 M-key (PCIe5.0 x2), supports 22110/2280 form facotr [CPU1]
Networking	OSFP	8 OSFP (800Gb/s) ports via NVIDIA® ConnectX® -8
Power Supply	Module	6+6, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	26 PWM 80x80 mm fans + 6 PWM 60x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

8U16X-GNR2 B300



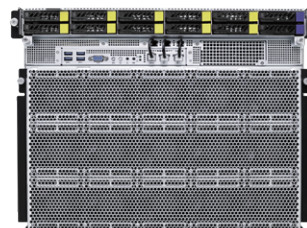
Application

- Generative AI and Virtual Assistants
- Hyperscale AI Research
- Large Scale AI Training



8U16X-GNR2 B300		
CPU	Socket	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
GPU	Supported GPU	NVIDIA® HGX™ B300 NVL8
PCIe Switch	PCIe Switch	PEX89114
DIMM	Slot	16+16 DDR5 (2DPC)
System	Form Factor	8U Rackmount
Physical Status	Chassis Dimension	930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button
	LEDs	System fault LED, HDD activity LED
	I/O	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)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel
	Others	1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	4 FHHL PCIe5.0 x16
Drive Bay / Storage	External	12 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Networking	OSFP	8 OSFP (800Gb/s) ports via NVIDIA® ConnectX® -8
Power Supply	Module	6+6, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	26 PWM 80x80 mm fans + 6 PWM 60x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

8U8X-GNR2 SYN B200



Application

- Generative AI and Virtual Assistants
- Large Language Models
- AI Training and Inference



8U8X-GNR2 SYN B200		
CPU	Socket	1+1 Socket E2 (LGA 4710); Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
GPU	Supported GPU	Supports eight NVIDIA B200 GPUs
PCIe Switch	PCIe Switch	PEX89104
	Operation Mode	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage
DIMM	Slot	16+16 DDR5 (2DPC)
System	Form Factor	8U Rackmount
Physical Status	Chassis Dimension	930 x 448 x 353.6mm (36.6" x 17.6" x 13.9")
	Buttons	Power button w/ LED, Reset button, NMI button, UID button
Front Panel	LEDs	System fault LED, HDD activity LED
	I/O	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)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with Front Panel 1 dedicated IPMI, shares with Front Panel
	Others	1 UID button, 1 DB15 (VGA), 1 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	8 HHHL PCIe5.0 x16 2 FHHL PCIe5.0 x16
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Drive Bay / Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
	Internal	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
Power Supply	Module	6+6, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	29 PWM 80x80 mm fans + 4 PWM 40x40 mm fans
Management		ASPEED BMC AST2600
Security		TPM (13-pin, SPI) by optional accessory

GNRD8UD-2Q



SFP28



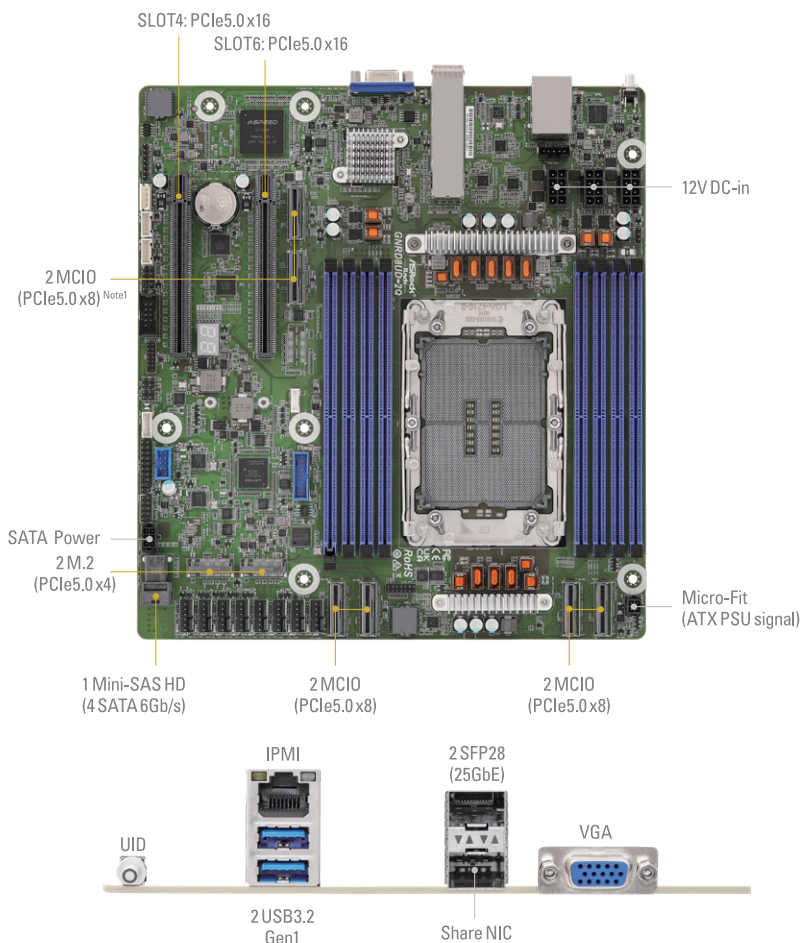
PCI-E 5.0



DDR5

Application

- Compact Storage Server
- Enterprise NAS
- Web Hosting



GNRD8UD-2Q		
Power source		Supports ATX PSU or 12V DC-in
Form Factor		Deep Micro-ATX (9.6" x 10.5")
Processor System	CPU	1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s MRDIMM up to 64GB each, max. 8800MT/s
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 SLOT4: PCIe5.0 / CXL2.0 x16
	Others	4 MCIO (PCIe5.0 / CXL2.0 x8) 2 MCIO (PCIe5.0 x8) ^{Note1}
Storage	M.2	2 M-key (PCIe5.0 x4), supports 2280 form factor
	SATA port	4 SATA 6Gb/s by ASM1061: 1 Mini-SAS HD
Network	SFP28	2 SFP28 (25GbE) by Intel® E810-XXVAM2
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 port: 2 via 9-pin header
	COM port	1 (9-pins) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: 2 MCIO only functions with selected processors

GNRD8-2L2T



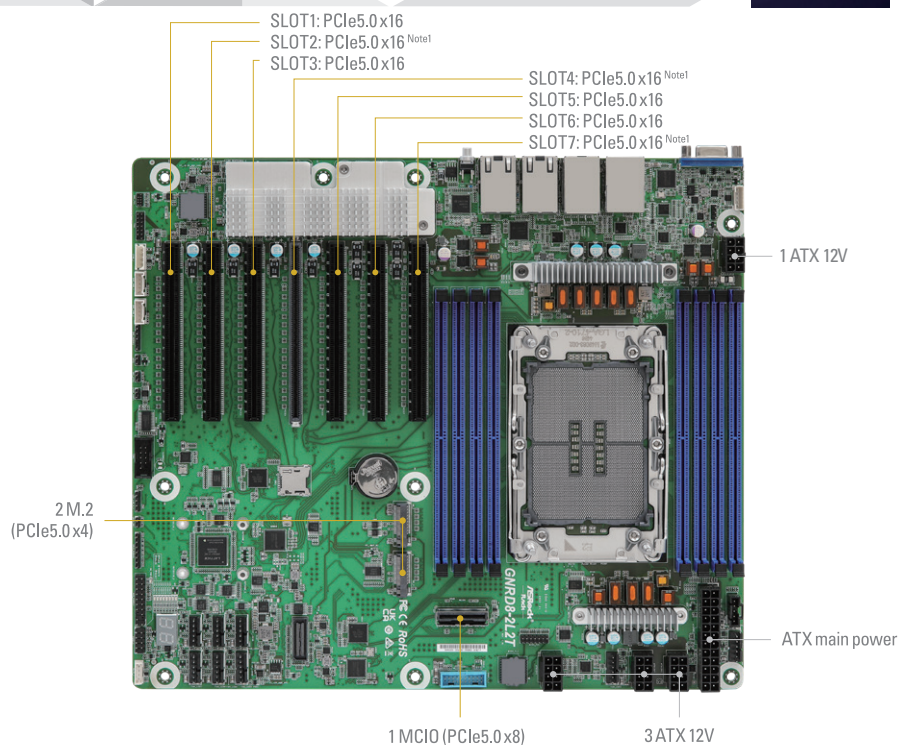
10GbBase-T



PCI-E 5.0

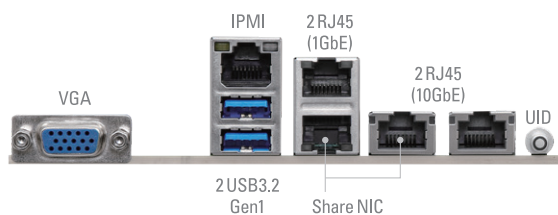


DDR5



Application

- Mainstream Server/Workstation
- Web Hosting
- GPU Tower



		GNRD8-2L2T
Form Factor		CEB (12" x 10.5")
Processor System	CPU	1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s MRDIMM up to 64GB each, max. 8800MT/s
Expansion	PCIe slot	SLOT7: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT6: PCIe5.0 / CXL2.0 x16 SLOT5: PCIe5.0 / CXL2.0 x16 SLOT4: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT3: PCIe5.0 / CXL2.0 x16 SLOT2: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT1: PCIe5.0 / CXL2.0 x16
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	NA
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	3 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 19-pin header 1 USB 2.0 ports: 1 via 19-pin header
	COM port	1 (9-pins) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: SLOT7, 4, 2 only functions with selected processors

GNRAPD12DNO



OCP NIC 3.0



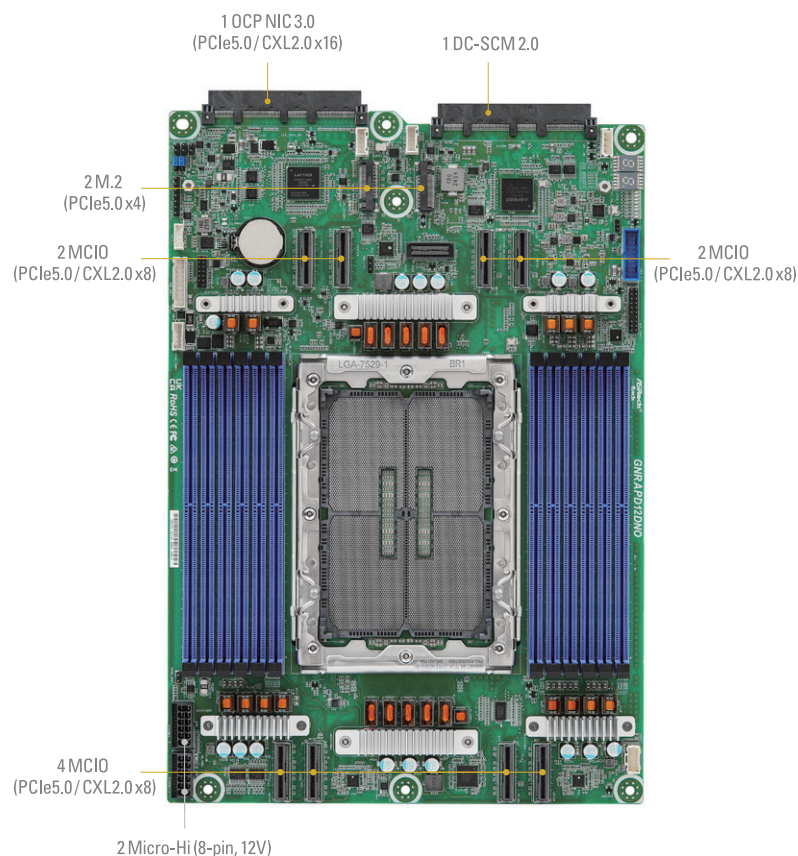
PCI-E 5.0



DDR5

Application

- Multi-node Server
- Edge Server
- OCP Server



GNRAPD12DNO

Form Factor		M-DNO Type2 (210 x 305.59mm)
Processor System	CPU	1 Socket BR (LGA 7529); Supports Intel® Xeon® 6900P-series processors
Memory	Capacity	12 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s MRDIMM up to 256GB each, max. 8800MT/s
Expansion	Others	8 MCIO (PCIe5.0 / CXL2.0 x8)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 2280 form factor
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Management	BMC	ASPEED AST2700 on DC-SCM 2.0 module (DC_SCM_2700)
	Dedicated IPMI	1 RJ45 on DC-SCM 2.0 module (DC_SCM_2700)
I/O	USB	4 USB3.2 Gen1 ports: 2 via 19-pin header, 2 via DC-SCM 2.0 module (DC_SCM_2700)
	COM port	1 Type-C (COM) on DC-SCM 2.0 module (DC_SCM_2700)
	Video	1 Mini-DisplayPort (VGA) on DC_SCM 2.0 module (DC_SCM_2700)
Security	TPM	Supports 13-pin (SPI) TPM modules

GNRD16DNO



OCP NIC 3.0



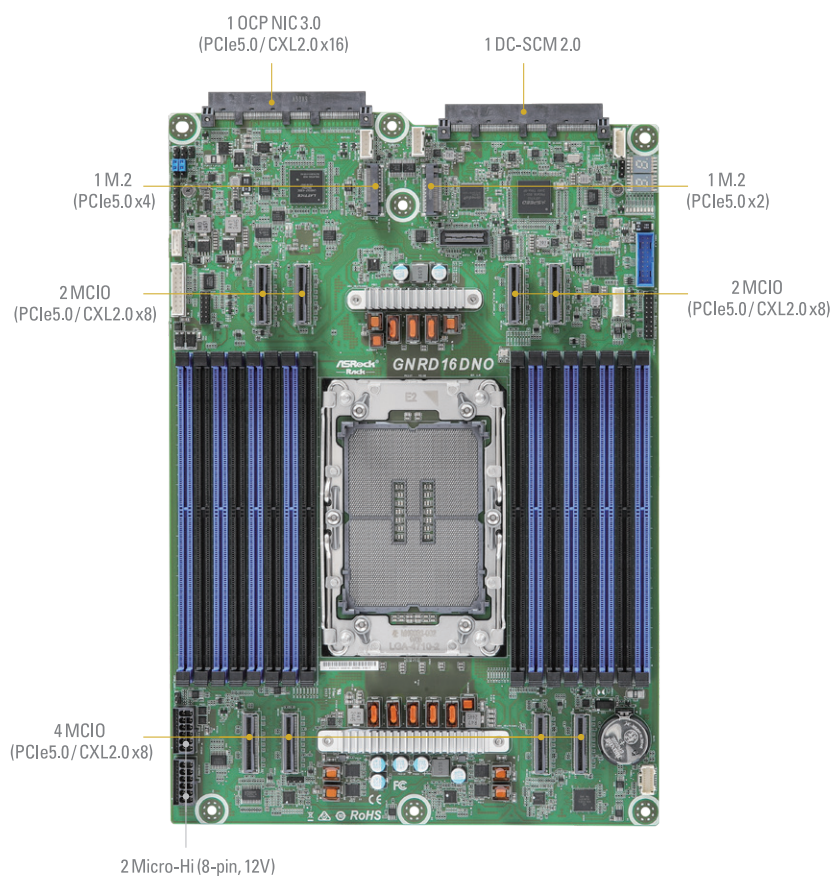
PCI-E 5.0



DDR5

Application

- Multi-node Server
- Edge Server
- OCP Server



GNRD16DNO

Form Factor		M-DNO Type2 (210 x 305.59mm)
Processor System	CPU	1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	16 DDR5 DIMM Slots (2DPC); Supports: RDIMM up to 128GB each RDIMM-3DS up to 256GB each RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM up to 64GB each, max 8800MT/s
Expansion	Others	8 MCIO (PCIe5.0 / CXL2.0 x8)
Storage	M.2	1 M-key (PCIe5.0 x4), supports 2280 form factor 1 M-key (PCIe5.0 x2), supports 2280 form factor
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Management	BMC	ASPEED AST2700 on DC-SCM 2.0 module (DC_SCM_2700)
	Dedicated IPMI	1 RJ45 on DC-SCM 2.0 module (DC_SCM_2700)
I/O	USB	4 USB3.2 Gen1 ports: 2 via 19-pin header, 2 via DC-SCM 2.0 module (DC_SCM_2700)
	COM port	1 Type-C (COM) on DC-SCM 2.0 module (DC_SCM_2700)
	Video	1 Mini-DisplayPort (VGA) on DC-SCM 2.0 module (DC_SCM_2700)
Security	TPM	Supports 13-pin (SPI) TPM modules

GNRD8HM3



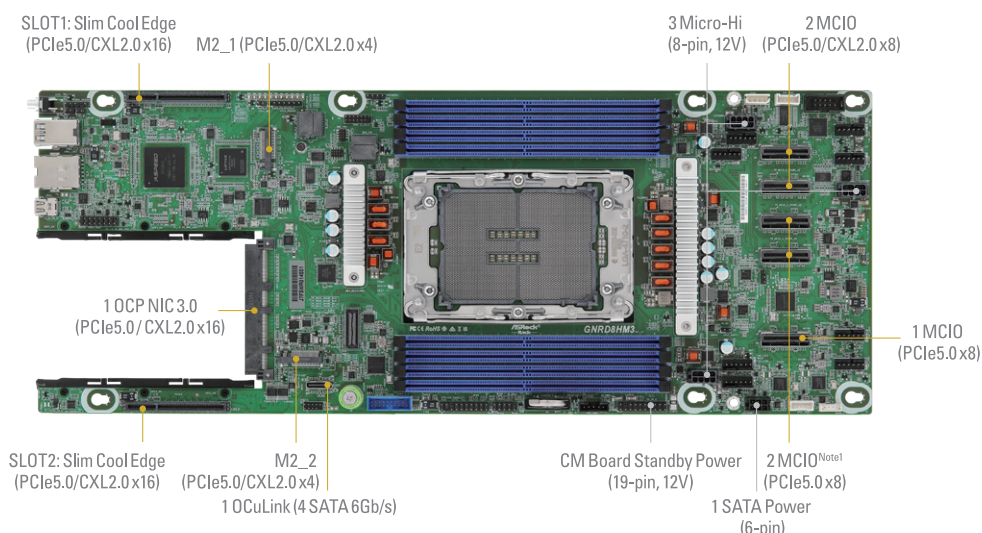
OCP NIC 3.0



PCI-E 5.0

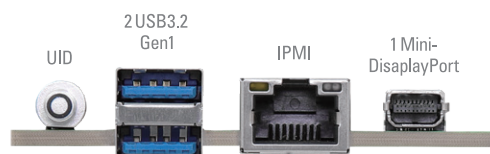


DDR5



Application

- Multi-node Server
- Edge Server
- OCP Server



		GNRD8HM3
Form Factor		Half-Width (6.6" x 17")
Processor System	CPU	1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s MRDIMM up to 64GB each, max. 8800MT/s
Expansion	PCIe slot	SLOT1: Slim Cool Edge (PCIe5.0 / CXL2.0 x16) SLOT2: Slim Cool Edge (PCIe5.0 / CXL2.0 x16)
	Others	2 MCIO (PCIe5.0 / CXL2.0 x8) 2 MCIO (PCIe5.0 x8) ^{Note1} 1 MCIO (PCIe5.0 x8) 1 OCuLink (4 SATA 6Gb/s)
Storage	M.2	M2_1 (PCIe5.0 / CXL2.0 x4), supports 2280 form factor M2_2 (PCIe5.0 / CXL2.0 x4), supports 22110 form factor
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	COM port	1 (9-pins) header
	Video	1 Mini-DisplayPort (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: MCIO3 and MCIO4 only function with selected processors

GNRD16QM3-NL



OCP NIC 3.0



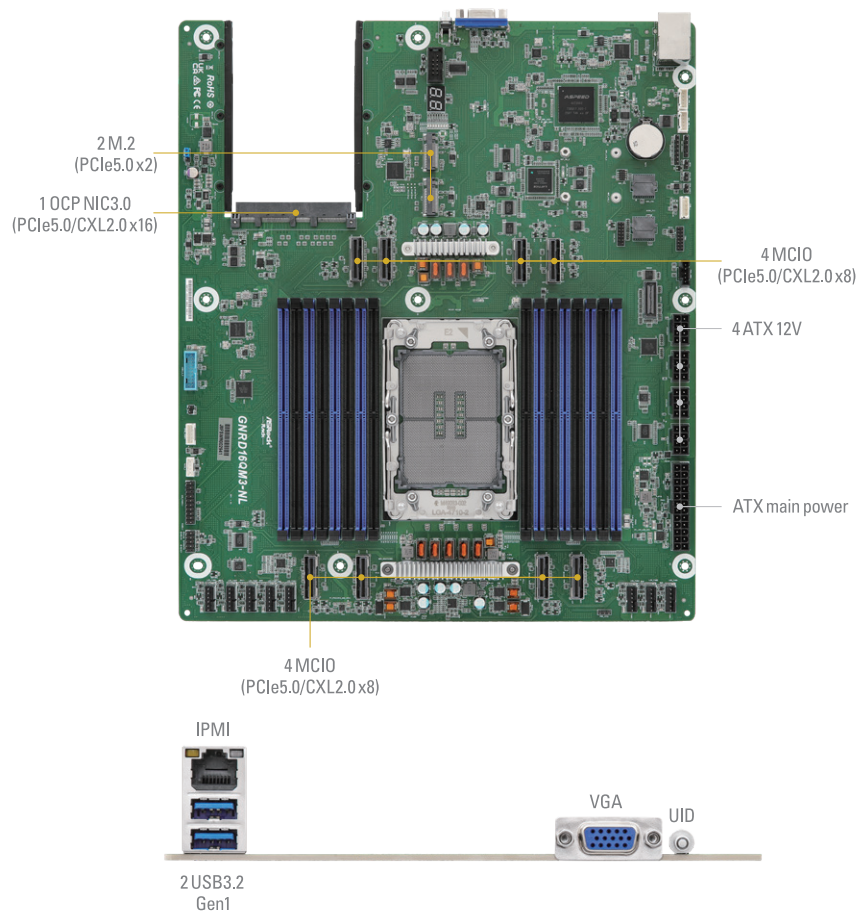
PCI-E 5.0



DDR5

Application

- NVMe Storage Server
- Software-defined Storage
- Content Delivery Network



		GNRD16QM3-NL
Form Factor		EEB (12" x 14")
Processor System	CPU	1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	16 DDR5 DIMM Slots (2DPC); Supports: RDIMM up to 128GB each RDIMM-3DS up to 256GB each RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM up to 64GB each, max 8800MT/s
Expansion	Others	8 MCIO (PCIe5.0 / CXL2.0 x8)
Storage	M.2	2 M-key (PCIe5.0 x2), supports 22110/2280 form factor
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	3 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 19-pin header 1 USB2.0 port: 1 via 19-pin header
	COM port	1 (9-pins) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

GNR2D16-2T



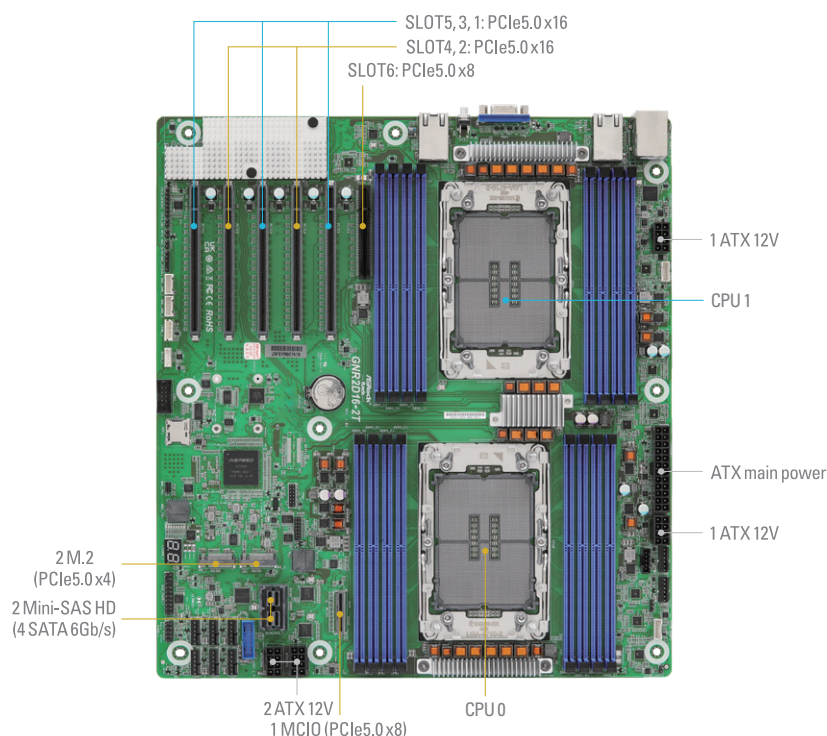
10GbE-T



PCI-E 5.0

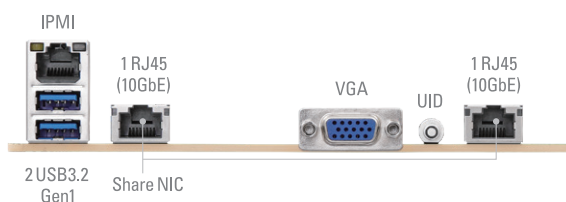


DDR5



Application

- Storage Server
- Mainstream Server for SMB
- High-end Workstation



		GNR2D16-2T
Form Factor		EEB (12.24" x 13.3")
Processor System	CPU	1+1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	8+8 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s MRDIMM up to 64GB each, max. 8800MT/s
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x8 [CPU0] SLOT5, 3, 1: PCIe5.0 / CXL2.0 x16 [CPU1] SLOT4, 2: PCIe5.0 / CXL2.0 x16 [CPU0]
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8) [CPU0]
Storage	M.2	2 M-key (PCIe5.0 x2), supports 22110/2280 form factor [CPU0]
	SATA port	8 SATA 6Gb/s by ASM1164; 2 Mini-SAS HD
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	COM port	1 (9-pins) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

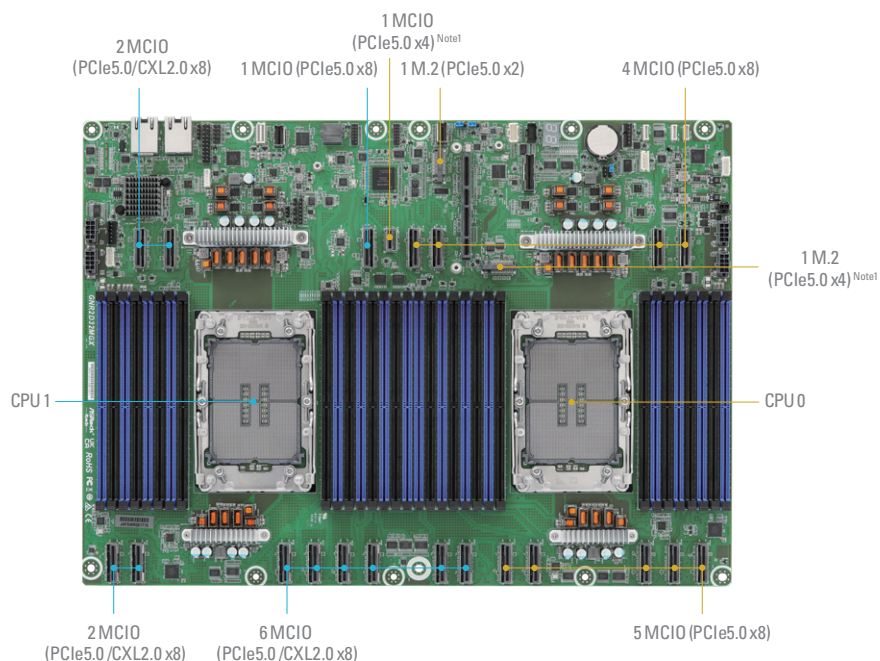
GNR2D32MGX



PCI-E 5.0

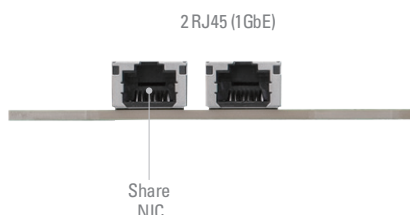


DDR5



Application

- GPGPU Computing
- All-flash Storage Server
- High-end Network Appliance



		GNR2D32MGX
Form Factor		MGX (424.5 x 305.59mm)
Processor System	CPU	1+1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	16+16 DDR5 DIMM Slots (2DPC); Supports: RDIMM up to 128GB each RDIMM-3DS up to 256GB each RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM up to 64GB each, max 8800MT/s
Expansion	Others	8 MCIO (PCIe5.0 / CXL2.0 x8) [CPU0] 1 MCIO (PCIe5.0 x8) [CPU0] 1 MCIO (PCIe5.0 x4) [CPU0] ^{Note1} 10 MCIO (PCIe5.0 / CXL2.0 x8) [CPU1] 1 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0] ^{Note1} 1 M-key (PCIe5.0 x2), supports 2280 form factor [CPU0]
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600 on DC-SCM 2.0 module (ARLINGTON-BB1)
	Dedicated IPMI	1 RJ45 on 4UMGX_IOB
I/O	USB	1 USB3.2 Gen1 ports: 1 via 4UMGX_IOB
	Video	1 Mini-DisplayPort (VGA) on 4UMGX_IOB
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: M2_1 and MCIO8 share lanes, manual switching by jumper setting

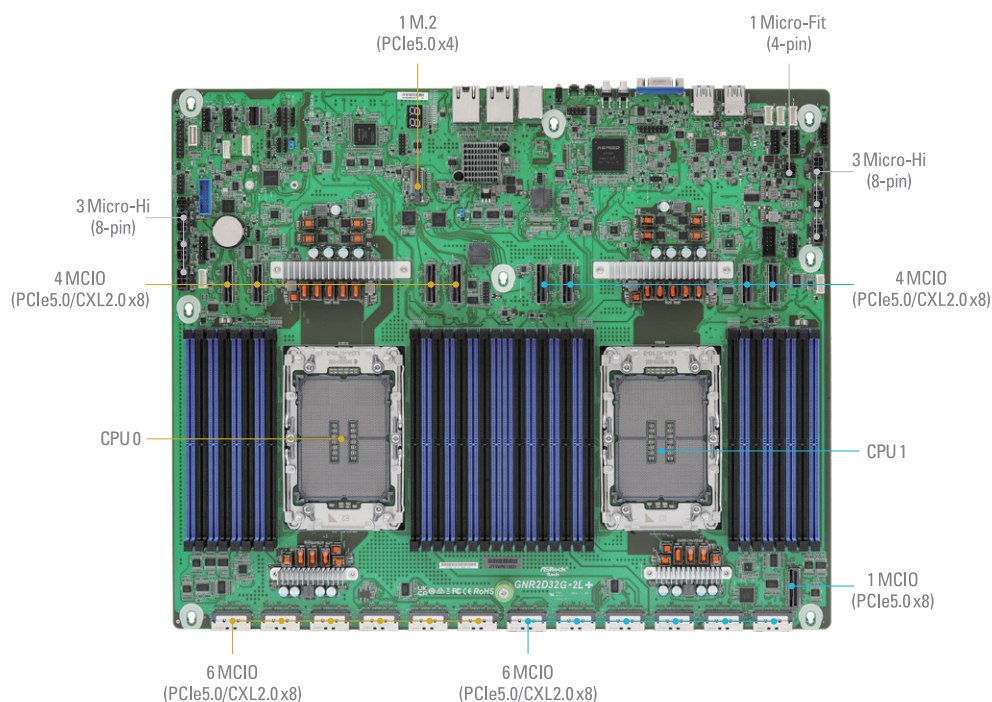
GNR2D32G-2L+



PCI-E 5.0

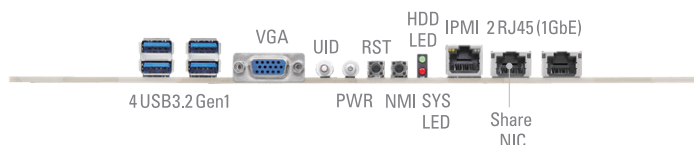


DDR5



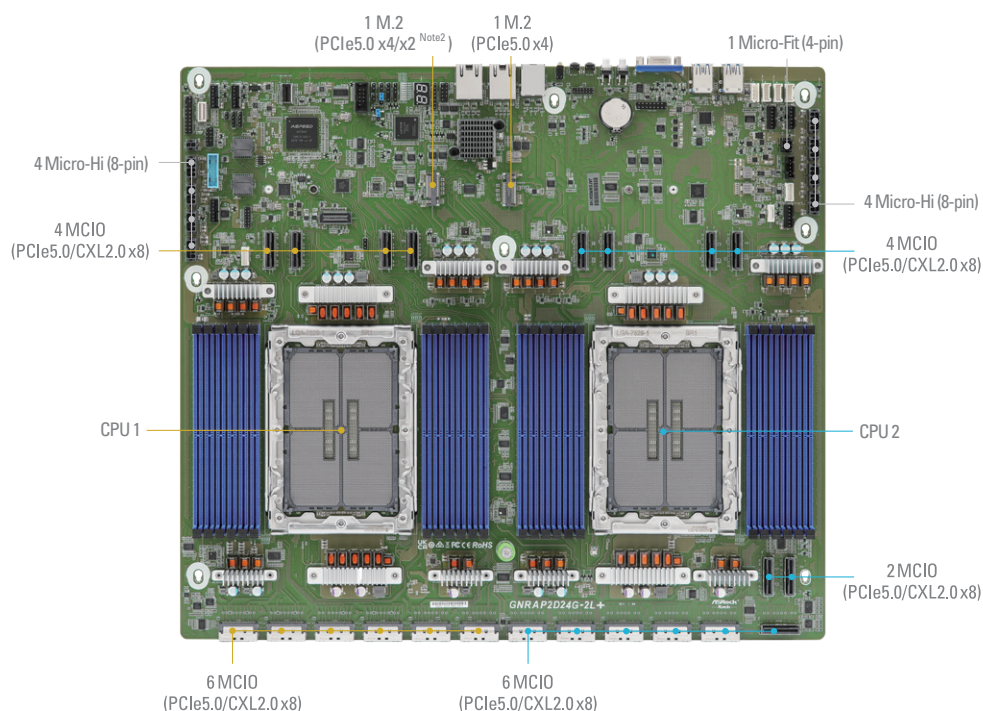
Application

- GPGPU Computing
- All-flash Storage Server
- High-end Network Appliance



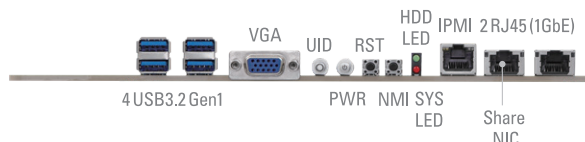
GNR2D32G-2L+		
Form Factor		Proprietary (16.93"x 13.79")
Processor System	CPU	1+1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	16+16 DDR5 DIMM Slots (2DPC); Supports: RDIMM up to 128GB each RDIMM-3DS up to 256GB each RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM up to 64GB each, max 8800MT/s
Expansion	Others	10 MCIO (PCIe5.0 / CXL2.0 x8) [CPU0] 10 MCIO (PCIe5.0 / CXL2.0 x8) [CPU1] 1 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2 SATA port	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0] NA
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC Dedicated IPMI	ASPEED AST2600: IPMI 2.0 1 RJ45 via Realtek RTL8211F
I/O	USB COM port Video	6 USB3.2 Gen1 ports: 4 rear Type-A, 2 via 19-pin header 1 (9-pins) header 1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

GNRAP2D24G-2L+



Application

- GPU Server
- Virtualization
- AI Inference



GNRAP2D24G-2L+		
Form Factor		Proprietary (16.93"x 13.79")
Processor System	CPU	1+1 Socket BR (LGA 7529); Supports Intel® Xeon® 6900P-series processors
Memory	Capacity	12+12 DDR5 DIMM Slots (1DPC); Supports: RDIMM up to 128GB each RDIMM-3DS, MCR DIMM up to 256GB each RDIMM, RDIMM-3DS max. 6400MT/s (1DPC) MRDIMM max 8800MT/s
Expansion	Others	10 MCIO (PCIe5.0 / CXL2.0 ^{Note1} x8) [CPU1] 12 MCIO (PCIe5.0 / CXL2.0 ^{Note1} x8) [CPU2]
Storage	M.2	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU1] 1 M-key (PCIe5.0 x4/x2 ^{Note2}), supports 22110/2280 form factor [CPU1]
	SATA port	NA
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	6 USB3.2 Gen1 ports: 4 rear Type-A, 2 via 19-pin header
	COM port	1 (9-pins) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Up to 4 CXL devices supported per socket; CXL memory function only supported at PCIe x16 bifurcation

Note2: M2_1 only supports PCIe5.0 x2 when RDS2 is linked to NVSwitch

GNR2D32FLW



OCP NIC 3.0



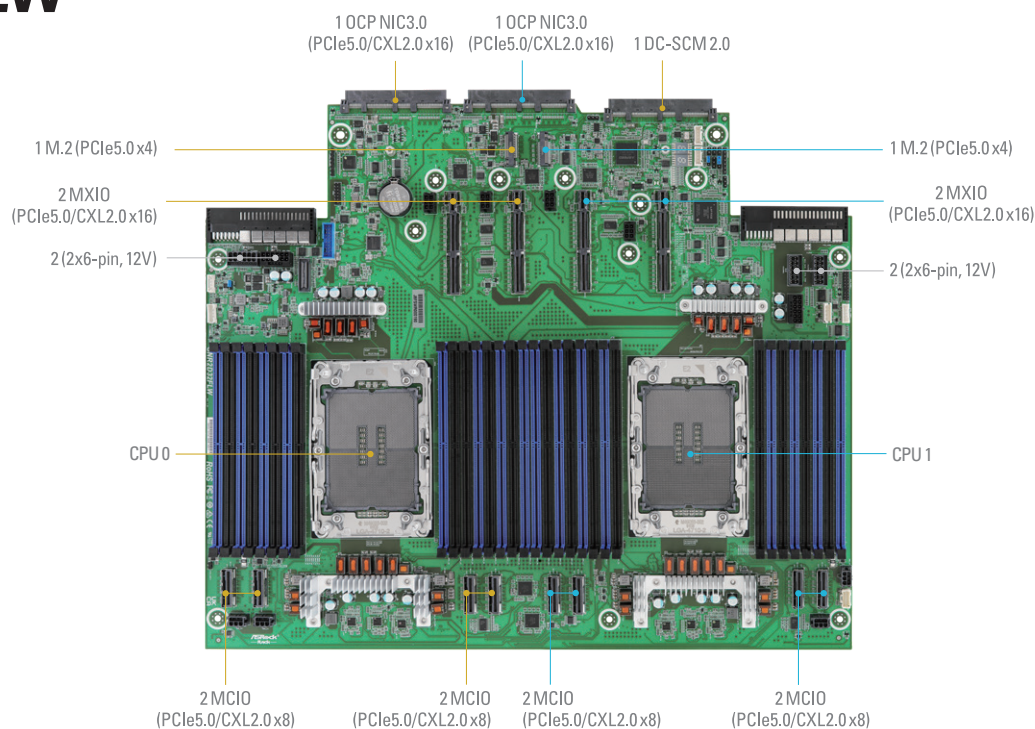
PCI-E 5.0



DDR5

Application

- Networking
- OCP Server
- All-flash Storage Server



GNR2D32FLW

Form Factor		M-FLW (423.18 x 359.99mm)
Processor System	CPU	1+1 Socket E2 (LGA 4710); Supports Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
Memory	Capacity	16+16 DDR5 DIMM Slots (2DPC); Supports: RDIMM up to 128GB each RDIMM-3DS up to 256GB each RDIMM, RDIMM-3DS, max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM up to 64GB each, max 8800MT/s
Expansion	PCIe slot	2 MXIO (PCIe5.0 / CXL2.0 x16) [CPU0] 2 MXIO (PCIe5.0 / CXL2.0 x16) [CPU1]
	Others	4 MCIO (PCIe5.0 / CXL2.0 x8) [CPU0] 4 MCIO (PCIe5.0 / CXL2.0 x8) [CPU1]
Storage	M.2	1 M-key (PCIe5.0 x4), supports 22110/2280/2260/2242 form factor [CPU0] 1 M-key (PCIe5.0 x4), supports 22110/2280/2260/2242 form factor [CPU1]
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) [CPU0] 1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) [CPU1]
Management	BMC	ASPEED AST2700 on DC-SCM 2.0 module
	Dedicated IPMI	1 RJ45 on DC-SCM 2.0 module
I/O	USB	4 USB3.2 Gen1 ports: 2 via 19-pin header, 2 via DC-SCM 2.0 module
	COM port	1 Type-C (COM) on DC-SCM 2.0 module
	Video	1 Mini-DisplayPort (VGA) on DC-SCM 2.0 module
Security	TPM	Supports 13-pin (SPI) TPM modules

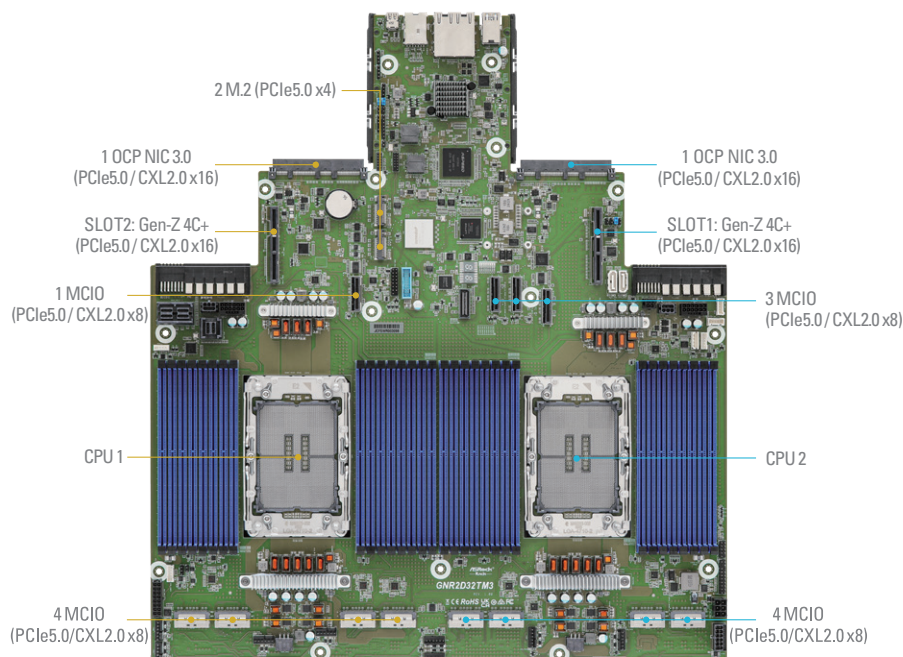
GNR2D32TM3



PCI-E 5.0

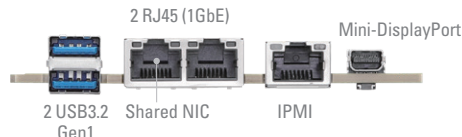


DDR5



Application

- GPU Server
- Big Data Analytics
- Virtualization



GNR2D32TM3

Form Factor		Proprietary T-shape (16.84" x 18.86")
Processor System	CPU	1+1 Socket E2 (LGA 4710) Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors
	FCH	System on chip
	TDP	Up to 350W
Memory	Capacity	16+16 DDR5 288-pin DIMM Slots (2DPC); Supports RDIMM up to 128GB each RDIMM-3DS, MCR DIMM up to 256GB each RDIMM, RDIMM-3DS max. 6400MT/s (1DPC), 5200MT/s (2DPC) MRDIMM max 8800MT/s
Expansion	PCIe slot	SLOT1: Gen-Z 4C+ (PCIe5.0 / CXL2.0 x16) [CPU1] SLOT2: Gen-Z 4C+ (PCIe5.0 / CXL2.0 x16) [CPU2]
	Others	5 MCIO (PCIe5.0 / CXL2.0 x4) [CPU1] 7 MCIO (PCIe5.0 / CXL2.0 x8) [CPU2]
Storage	M.2	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU1] 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU2]
	SATA port	14 SATA 6 Gb/s; 3 Mini-SAS HD, 2 SATA 7-pin
Network	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) [CPU1] 1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) [CPU2]
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	Video	1 Mini-DisplayPort (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

About ASRock Rack

ASRock Rack Inc., established in 2013, specialized in the field of Cloud Computing server hardware. Inheriting ASRock's design concepts, Creativity, Consideration and Cost-effectiveness, the company is dedicated bringing the Server Industry out of the box thinking with the passion to innovate. Leveraged by ASRock's growing momentum and distribution channels, this young and vibrant company targets at the booming market of cloud computing and commits to serve the market with user friendly, eco-friendly, Do-It-Yourself Server hardware, featuring flexible and reliable products.

GPU Servers

Accelerating imaginations and breakthroughs with cutting-edge technology, the ASRock Rack GPU server lineup unlocks unmatched performance, excelling across a wide range of workloads including AI, HPC, cloud gaming, and video rendering for cloud, on-prem, and edge environments.



All-Flash NVMe Storage Servers

Built to support a high density of NVMe drives, the ASRock Rack All-Flash storage server delivers unparalleled speed, ultra-low latency, and high throughput—making it ideal for AI, HPC, CDN, and performance-driven environments where fast, reliable data access is critical.

Multi-Node Servers

Maximize performance and efficiency with ASRock Rack Multi-Node Servers—architected to deliver high-density computing, optimized resource utilization, and seamless scalability for modern data centers, cloud computing and web hosting.

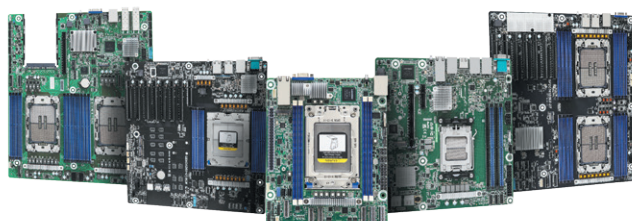


OCP

ASRock Rack OCP solutions are designed to enhance power efficiency, streamline rack integration, and promote sustainability in alignment with an open standard.

Rack Servers

ASRock Rack extensive portfolio of general purpose, compute, and storage servers in 1U, 2U, or 4U for diverse workloads from small business, virtualization, VDI, e-commerce to hyper-converged infrastructure, and more.



Server Motherboards

Tailor your servers and workstations with ASRock Rack versatile motherboards, powered by high-performance x86 and ARM-based processors. Choose from both single and dual socket options, and a wide range of form factors, to build the ideal solution for your unique computing needs.



Reliable Innovation
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Consistent Quality
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