

NEW HEIGHT OF AI COMPUTING

Performance-optimized GPU Server Solutions

GPU Barebones



nVIDIA



NVIDIA-Certified Systems

NVIDIA-Certified Systems™ consist of NVIDIA GPUs installed in qualified enterprise-class servers that have passed a set of certification tests that validate the best system configurations for a wide range of workloads, as well as for manageability, scalability, and security. GPUs must be NVIDIA Ampere or Turing™ architecture data center GPUs.

Card Model	Server Model	PCIe Speed	Processor Type
NVIDIA A100 40GB	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7002
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002
NVIDIA A30	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7002
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002

NVIDIA-Qualified

A server that has been qualified for a particular NVIDIA GPU has undergone thermal, mechanical, power, and signal integrity qualification to ensure that the GPU is fully functional in that server design. Servers in qualified configurations are supported for production use.

Card Model	Server Model	PCIe Speed	Processor Type
NVIDIA H100 PCIe	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7003
	4U8G-GENOA2	PCIe Gen5	AMD EPYC™ 9004
	4U10G-GENOA2	PCIe Gen5	AMD EPYC™ 9004
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7003
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
NVIDIA L40	4U10G-GENOA2	PCIe Gen4	AMD EPYC™ 9004
NVIDIA L40S	2U4G-GENOA/M3	PCIe Gen4	AMD EPYC™ 9004
	4U8G-GENOA2	PCIe Gen4	AMD EPYC™ 9004
	4U10G-GENOA2	PCIe Gen4	AMD EPYC™ 9004
NVIDIA L4	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7003
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7003
	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7003
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7003
NVIDIA RTX A6000	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002
	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
NVIDIA HGX A100 4-GPU 40 GB	3U4X-ROME/2T	SXM4 Gen4	AMD EPYC™ 7002
	3U4X-ROME/2T	SXM4 Gen4	AMD EPYC™ 7002
NVIDIA A100 80GB	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7002
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002
	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002

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Card Model	Server Model	PCIe Speed	Processor Type
NVIDIA A100 40GB	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
NVIDIA A40	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7002
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002
	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
NVIDIA A30	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
NVIDIA A16	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7003
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7003
NVIDIA A10	1U4G-ROME	PCIe Gen4	AMD EPYC™ 7002
	2U4G-ROME/2T	PCIe Gen4	AMD EPYC™ 7002
	4U8G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U10G-ICX2/2T	PCIe Gen4	3rd Gen Intel® Xeon® Scalable
	4U8G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002
	4U10G-ROME2/2T	PCIe Gen4	AMD EPYC™ 7002

Intel Platform

BAREBONE		
5th & 4th Intel® Xeon Scalable	1U1G-EGS/M3	01
	2U4G8E-EGS2	02
	4U8G-EGS2, 4U10G-EGS2	03
	6U8X-EGS2	04
2nd Gen. Intel® Xeon® Scalable / Intel® Xeon® Scalable	2U2G-ICX2	05
	4U4G-SPC621D8	06
	4U8G-ICX2/2T, 4U10G-ICX2/2T	07
	2U2G/C622	08
	2U4G-C621WS	09
	RM237-C622LM2	10
	3U8G+/C621	11
	3U8G+/C621GM2	12
	3U10G-F/C621	13
Intel Core™ 14th Gen, 13th & 12th Gen Intel Core™	1U1G-W680/2L2T	14
Intel® Xeon® W-2200/2100	1U1G-WC422/2T	15
Intel® Xeon® E-2300 and 10th Gen Intel® Pentium®	1U1G-C256/2L2T	16
	1U2N2G-C252/2T	17

AMD Platform

BAREBONE		
AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4	1U1G-GENOA/M3	18
	2U4G-GENOA/M3	19
	4U4G-GENOAX/2T	20
	4U8G-GENOA2, 4U10G-GENOA2	21
AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology) /7002	1U1G-MILAN/N	22
	1U2N2G-ROME/2T	23
	1U4G-ROME, 1U4G-ROME/2E	24
	2U4G-ROME/2T	25
	4U8G-ROME2/2T, 4U8G-ROME2/2T-24S, 4U8G-ROME2/2T-24S EOB	26
	4U10G-ROME2/2T	27
	3U4X-ROME/2T	28
AMD EPYC™ 7002/7001	7U8X-ROME2/2T	29
	2U4G-EPYC-2T, 2U4G-EPYC	30
	4U4G-EPYCD8-2T	31
AMD Ryzen™ 7000	1U2N2G-AM5/2T	32
	1U1G-B650/2L2T, 1U1G-B650	33
	2U1G-B650	34
AMD Ryzen™ 5000	1U2N2G-B550/2T,1U2N2G-B550	35
	1U1G-X570/2L2T, 1U1G-X570	36

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.

Barebones Series

Leveraging the Versatile Portfolio, ASRock Rack Barebones Series provide the solutions for Cloud, AI, Deep Learning and 5G with high density and multi-node of computing, storage and networking with lower TCO and greater efficiency.

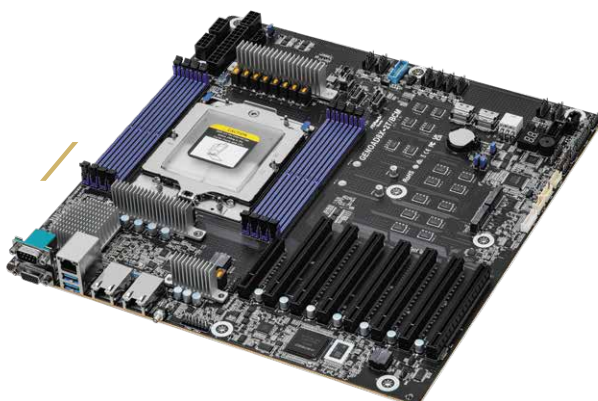
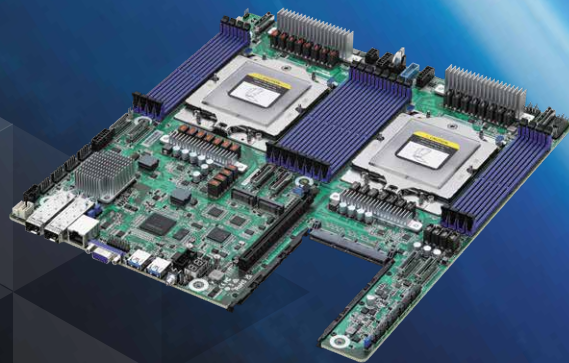


OPEN 19

The Open19 project is an industry specification that defines a cross-industry common server form factor; with the open standard technology and wide levels of adoption, the Open19 creates more flexible and economic for data center and edge solutions as well as the operators of all sizes.

Server Motherboards

With the best performance, product lifetime, and optimized resource utilization, ASRock Rack Server Motherboards are famous and popular among industry investment, especially for the flexibility and versatility.



Workstation Motherboards

Featuring reliable, quiet, and power-efficient, these workstations are best tools for the content creators.

1U1G-EGS/M3



GPGPU



10Gbase-T



OCP NIC 3.0

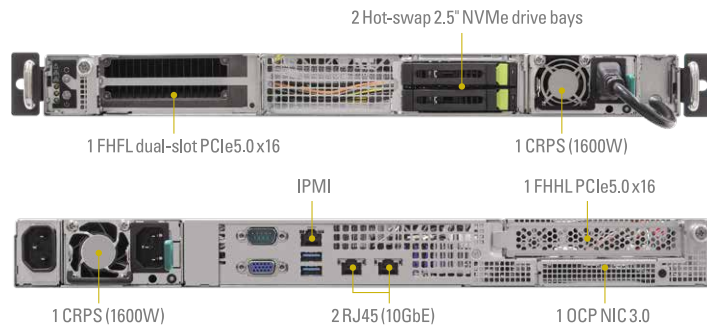


PCI-E 5.0



Application

- Visualization
- Rendering
- Virtualization
- Deep Learning



		1U1G-EGS/M3
CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	653.5 x 438.0 x 43.5 mm (25.73" x 17.24" x 1.71")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset
	LEDs	System Fault, LAN1/LAN2 Activity
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
	Others	1 dedicated IPMI
		1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Front	1 FHFL dual-slot PCIe5.0 x16
	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	1+1, 1600W CRPS
System Cooling	Fan	6 PWM dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

2U4G8E-EGS2



GPGPU



PCI-E 5.0

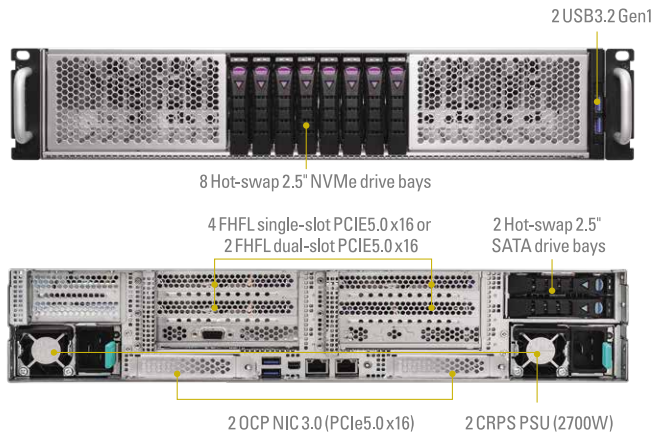


OCP NIC 3.0



Application

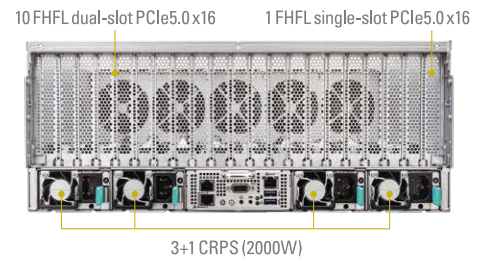
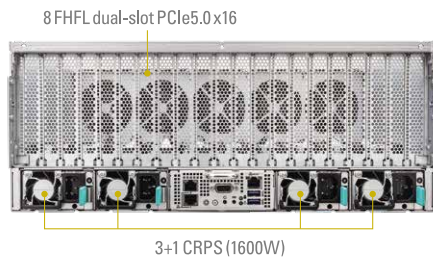
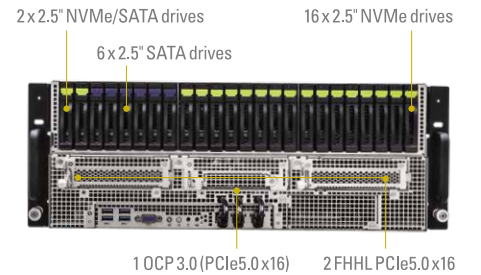
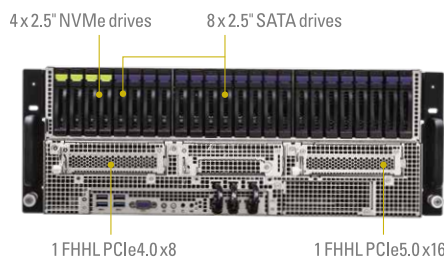
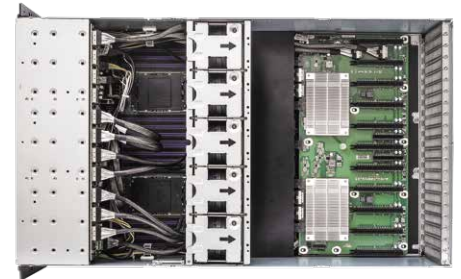
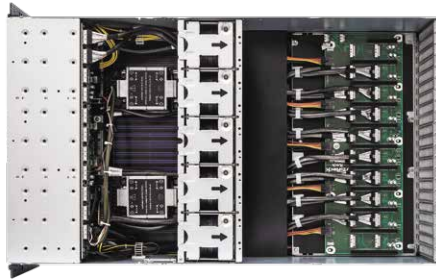
- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization



		2U4G8E-EGS2
CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical	Form Factor	2U Rackmount
Status	Chassis Dimension	800 x 438 x 87.3mm (31" x 17.2" x 3.44")
Front Panel	Buttons	Power w/ LED, ID w/ LED, System Reset
	LEDs	System fault
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	1 RJ45 (COM)
		1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 Mini-DP (DP/Mini-DP), 1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	4 FHFL single-slot PCIe5.0 x16 or 2 FHFL dual-slot PCIe5.0 x16
		2 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0) drive bays
		2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe4.0 x4), support 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 2700W CRPS PSU
System Cooling	Fan	6 PWM fixed 60x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

4U8G-EGS2

4U10G-EGS2



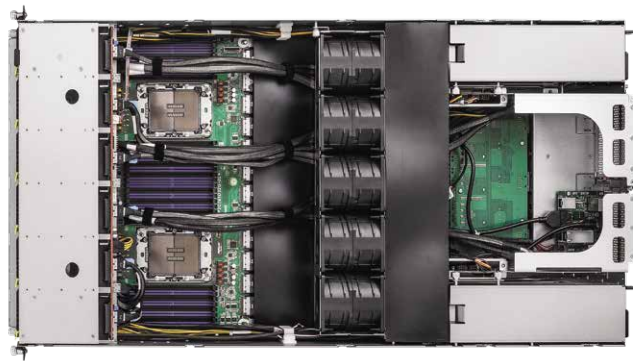
Application

- Deep Learning
- Big Data Analytics
- HPC
- Machine Learning

		4U8G-EGS2	4U10G-EGS2
CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors	
DIMM	Slot	16+16 DDR5 288-pin (2DPC)	
System Physical Status	Form Factor	4U Rackmount	
	Chassis Dimension	786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")	
Front Panel	Buttons	Power w/ LED, Reset, NMI, UID	
	LEDs	System Fault LED, HDD Activity LED	
	I/O	2 RJ45 (1GbE) by Intel® i350-AM2	
		1 dedicated IPMI	
	4 Type-A (USB3.2 Gen1)		
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel	
	USB	1 dedicated IPMI, shares with front panel	
	Others	2 Type-A (USB3.2 Gen1)	
Expansion Slots	Front	1 FHHL PCIe5.0 x16	2 FHHL PCIe5.0 x16
		1 FHHL PCIe4.0 x8	1 OCP NIC 3.0 (PCIe5.0 x16)
	Rear	8 FHFL dual-slot PCIe5.0 x16	10 FHFL dual-slot PCIe5.0 x16
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drives,	2 Hot-swap 2.5" NVMe (PCIe4.0 x4)/SATA drives,
		8 Hot-swap 2.5" SATA drives or	6 Hot-swap 2.5" SATA drives, 16 Hot-swap 2.5" NVMe (PCIe5.0 x4) drives or
	Internal	24 Hot-swap 2.5" SATA/SAS ^{Note1} drives	24 Hot-swap 2.5" SATA/SAS ^{Note1} drives
		1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor	
		1 M-key (PCIe3.0 x4), supports 2280/22110 form factor	
Power Supply	Module	3+1, 80-Plus Platinum, 1600W CRPS	3+1, 80-Plus Platinum, 2000W CRPS
System Cooling	Fan	5 PWM Hot-swap 80x80 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	

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

6U8X-EGS2



DDR5



PCI-E 5.0

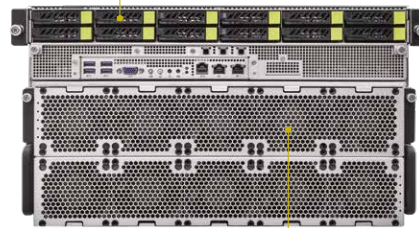


GPGPU



NVIDIA HGX
H100/H200/B100

8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
4 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays

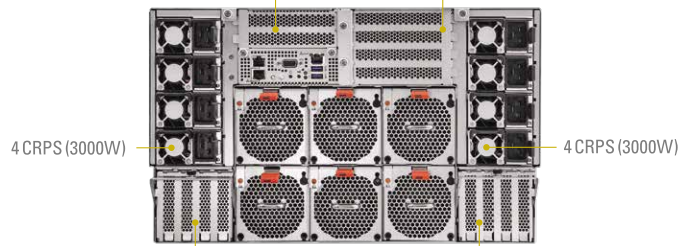


NVIDIA HGX™ H100/H200/B100 8-GPU

Application

- Generative AI
- Big Data Analytics
- Machine Learning
- Large Language Model

2 FHHL PCIe5.0x16 3 FHHL PCIe5.0x16



4 CRPS (3000W)

4 HHHL PCIe5.0x16

6U8X-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	6U Rackmount
	Chassis Dimension	264.7 x 448 x 930mm (10.4" x 17.6" x 36.6")
Front Panel	Buttons	Power w/ LED, Reset, NMI, UID
	LEDs	System Fault LED, HDD Activity LED
	I/O	2 RJ45 (1GbE) by Intel® i350-AM2 1 dedicated IPMI 4 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel 1 dedicated IPMI, shares with front panel
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID w/ LED
Expansion Slots	Front	Supports NVIDIA HGX™ H100/H200/B100 8-GPU with NVSwitch
	Rear	8 HHHL PCIe5.0x16 5 FHHL PCIe5.0x16
Drive Bay/ Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays, 4 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA drive bays
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor [PCH] 1 M-key (PCIe3.0 x4), supports 2280/22110 form factor [PCH]
Power Supply	Module	4+4, 80-Plus Platinum/Titanium, 3000W CRPS
System Cooling	Fan	21 PWM Hot-swap 80x80 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

2U2G-ICX2



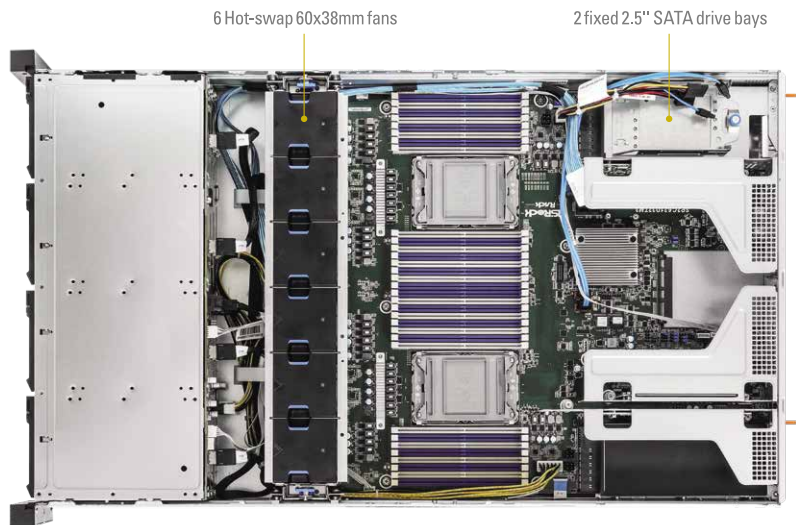
3200



Storage

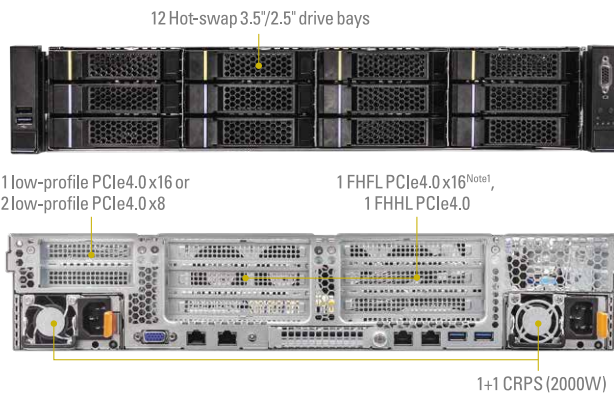


GPGPU



Application

- High-performance Technical Computing
- Deep Learning
- Big Data Analytics
- Software-defined Storage



2U2G-ICX2

CPU	Socket	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)
System Physical	Form Factor	2U Rackmount
Status	Chassis Dimension	779.5 x 447.6 x 87 mm (30.69" x 17.62" x 3.43")
Front Panel	Buttons	Power, UID, Reset
	LEDs	Power Status, LAN Activity, HDD Activity, System status
	I/O	1 Type-A (USB3.2 Gen1), 1 Type-A (USB2.0), 1 DB15 (VGA)
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2
	USB	1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1)
		1 DB15 (VGA), 1 RJ45 (COM), 1 UID w/ LED
Expansion Slots	Rear	SLOT1: 1 FHFL PCIe4.0 x16 ^{Note1} , 1 FHHL PCIe4.0 x16 via RB251-X8X16X16_G4_AMUX [CPU0] SLOT2: 1 FHFL PCIe4.0 x16 ^{Note1} , 1 FHHL PCIe4.0 x16 via RB251-X16X8X16_G4_AMUX [CPU1] SLOT3: 1 low-profile PCIe4.0 x16 or 2 low-profile PCIe4.0 x8 via RB251-X8X16_G4_AMUX [CPU1]
Drive Bay/ Storage	External	12 Hot-swap 3.5"/2.5" drive bays, supports 8 SATA HDD/SSD and 4 NVMe (PCIe4.0 x4) SSD
	Internal	2 fixed 2.5" SATA drive bays 2 M-key ^{Note2} (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	1+1 2000W CRPS
System Cooling	Fan	6 PWM Hot-swap 60x38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Support NVIDIA® A100

Note2: 1 fixed SATA drive bay share SATA with M2_1, and will be disabled when M2_1 populated with SATA device

Note3: SAS drives are only supported with additional RAID/HBA cards

4U4G-SPC621D8



GPGPU



3200



4 Dual Slot PCIe x16

4 FHFL dual-slot PCIe4.0 x16 or
6 FHFL single-slot PCIe4.0 x8,
1 FHFL single-slot PCIe4.0 x16



Application

- Deep Learning
- Data Processing
- Mainstream Workstation



2 Type-A (USB3.2 Gen1)



2 Hot-swap 2.5" SATA drive bays

1+1 CRPS (1600W)

IPMI

		4U4G-SPC621D8
CPU	Socket	1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	8 DDR4 288-pin (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9", without GPU fans)
Front Panel	Buttons	Power w/ LED, UID w/ LED, NMI
	LEDs	LAN Activity, HDD Activity, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	4 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	4 FHFL dual-slot PCIe4.0 x16 or 6 FHFL single-slot PCIe4.0 x8, 1 FHFL single-slot PCIe4.0 x16
Drive Bay/ Storage	External	2 hot-swap 2.5" SATA drive bays
	Internal	1 M-key (PCIe3.0 x4), supports 22110/2280/2242 form factor 1 M-key (PCIe3.0 x1 or SATA 6Gb/s), supports 22110/2280/2242 form factor
Power Supply	Module	1+1 1600W CRPS
System Cooling	Fan	4 PWM fixed 80x38 mm fans 2 PWM fixed 80x38 mm GPU fans (optional)
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

4U8G-ICX2/2T

4U10G-ICX2/2T



PCI-E 4.0



10Gbase-T

Application

- AI Training
- Big Data Analytics
- HPC
- Rendering
- VDI



		4U8G-ICX2/2T	4U10G-ICX2/2T
CPU	Socket	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)	16+16 DDR4 288-pin (2DPC)
System Physical Status	Form Factor	4U Rackmount	4U Rackmount
	Chassis Dimension	845 x 438 x 176.5 mm (33.27" x 17.24" x 6.95")	845 x 438 x 176.5 mm (33.27" x 17.24" x 6.95")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED	Power button w/ LED, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED	System fault LED, HDD activity LED
	I/O	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO 4 USB3.2 Gen1 ports 1 DB15 (VGA)	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO 4 USB3.2 Gen1 ports 1 DB15 (VGA)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel
	Others	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel
Expansion Slots	Front	1 FH PCIe3.0 x4 [PCH] ^{Note1} 1 OCP3.0 PCIe3.0 x4 [PCH] ^{Note2}	1 FH PCIe4.0 x16 [CPU0] 1 FH PCIe4.0 x16 [CPU1] 1 OCP3.0 PCIe4.0 x16 [CPU1]
	Rear	4 FH dual-slot PCIe4.0 x16 [CPU0] 4 FH dual-slot PCIe4.0 x16 [CPU1]	5 FH dual-slot PCIe4.0 x16 or 10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU0] 5 FH dual-slot PCIe4.0 x16 or 10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU1] 1 FH single-slot PCIe4.0 x16 [CPU1]
Drive Bay/ Storage	External	2 Hot-swap 3.5" SATA drive bays 10 Hot-swap 3.5" drive bays ^{Note3}	6 Hot-swap 3.5" NVMe drive bays 4 Hot-swap 3.5" SATA drive bays 2 Hot-swap 3.5" SATA/NVMe drive bays
	Internal	2 M-key ^{Note1} (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]	2 M-key ^{Note1} (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	3+1 Platinum 1600W CRPS	3+1 Platinum 1600W CRPS
System Cooling	Fan	5 Middle Hot-swap 80 x 80 mm fans 5 Rear Hot-swap 80 x 38 mm fans	5 Middle Hot-swap 80 x 80 mm fans 5 Rear Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500	ASPEED BMC AST2500
Security		TPM by optional accessory	TPM by optional accessory

Note1: 1 FH PCIe3.0 x4 will be disabled when M2_2 is populated

Note2: Supports 1 OCP3.0 PCIe3.0 x4 possible by cable reconfiguration

Note3: Please contact ASRock Rack if additional 10 Hot-swap 3.5" drive bays need to be supported

Note4: SAS drives are only supported with additional RAID/HBA cards

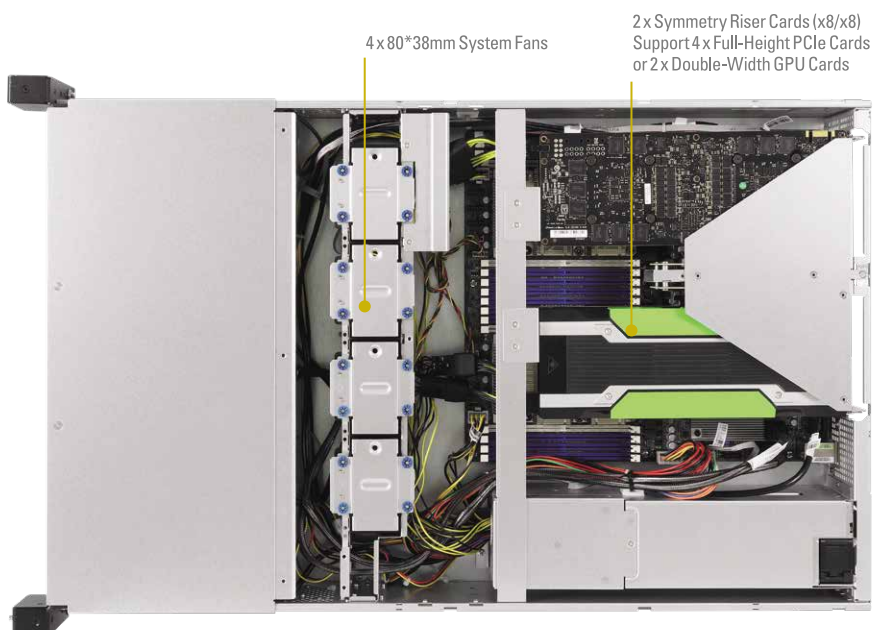
2U2G/C622



GPGPU



2933



Converged Server, HPC, Virtualization, and Big Data



		2U2G/C622
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	715mm x 448mm x 86mm(28.1" x 17.6" x 3.4")
	Support MB Size	EEB, 12" x 13"(EP2C622D16NM)
Front Panel	Buttons	Power On/Standby button, UID button
	LEDs	System LED, UID LED, Power LED, 2 x Network activity LED
	I/O Ports	2 x USB 2.0 ports
Storage	External	8 x 3.5" SATA HDDs(6GB/s)
	Internal	4x 2.5"SATA HDDs(6GB/s)
System Cooling	Fan(Front)	4 x 80*38 system fans
Power Supply	Capacity	2U(1+1)Redundant
	Output Watts	1600W
	Efficiency	Platinum

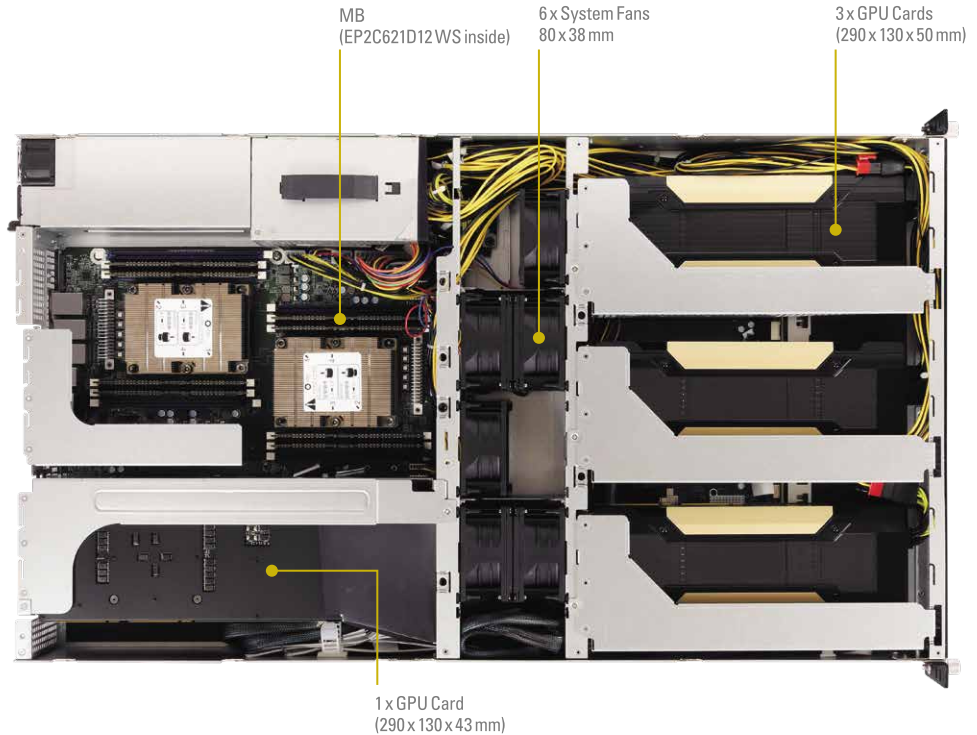
2U4G-C621WS



3647



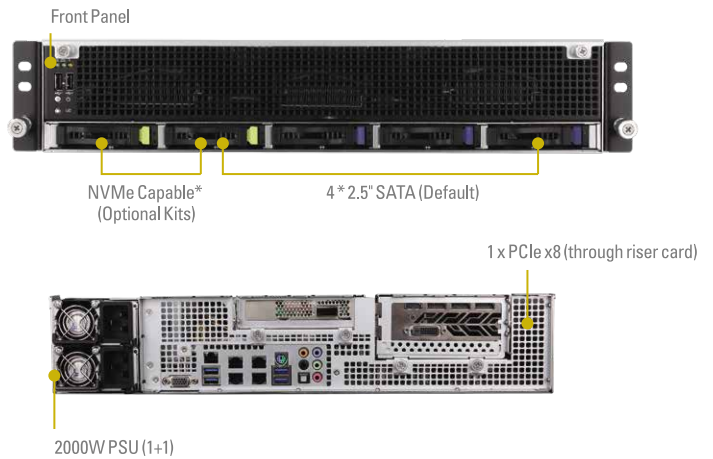
Workstation



High Performance Dual Intel Xeon Scalable Enterprise Tower Workstation

Application

- Graphics-intensive Applications
- 3D/Video Rendering/Drafting



2U4G-C621WS		
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	438x 795x 87.5 mm
	Support MB Size	EEB, 12" x 13" (EP2C621D12 WS)
Front Panel	Buttons	Power button UID button
	LEDs	System LED, UID, PWR, LAN1, LAN2 UID LED PWR LED LAN1, LAN2 LED
	I/O Ports	2 x USB 2.0 ports
GPU Support	GPU card qty	4 x GPGPU x16 or 8 x GPGPU x8 (Max 300W per card)
Drive Bay	External	4 x 2.5" SATA 6GB/s HDDs (1x SATA3 HDD could support NVME SSD or SATA3 6GB/s HDDs) 1x NVME SSD
Ethernet	Interface	1000/100/10 Mbps
	LAN Controller	4x RJ45 by Marvell 88E1543 4+1(IPMI) RJ45 Dedicated IPMI LAN port
Power Supply	Capacity	2(1+1), Redundant
	Output Watts	2000W, Platinum
System Cooling	Fan	6x 80*38 mm system fans

RM237-C622LM2



2666



3647



1U/2U High Density Storage



SAS3 12Gb/s



L shape



Storage Mezzanine Optimized

Application

- Enterprise Mission Critical Application
- Virtualization Storage Server



12x 3.5" SATA/SAS HDD

2x 2.5" SATA3/SAS HDD



1600W Platinum, 2(1+1), Redundant CPRS PSU

		RM237-C622LM2
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	735mm x 438mm x 87mm
	Support MB Size	L shape, 16.7" x 17" inch (EP2C622D24LM2)
Front Panel	Buttons	Power On button, UID button, System reset button
	LEDs	HDD Activity LED, System Status LED
	I/O Port	1 x USB 2.0 port, 1 x USB 3.0 port, 1 x VGA port
Storage	External	12 x 3.5" SATA HDD/12 x 3.5" SAS HDD (with RAID/HBA card)
	Rear Side	2 x 2.5" SATA HDD/2 x 2.5" SAS HDD (with RAID/HBA card)
System Cooling	Fan	6 x 60*38 mm PWM systems fans (Hot-swap)
Power Supply	Capacity	2 (1+1), Redundant CPRS PSU
	Output Watts	1600W
	Efficiency	Platinum

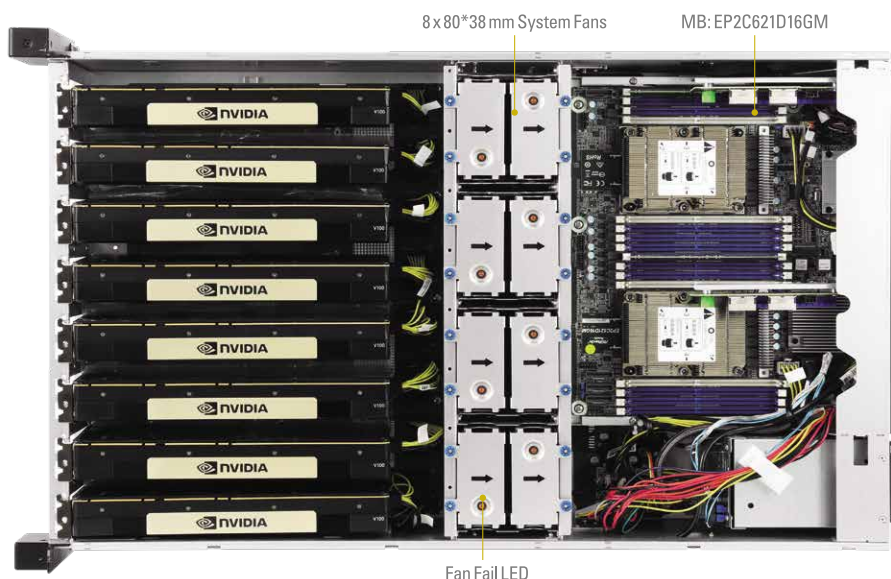
3U8G+/C621



GPGPU



3647



Application

- GPU Server
- 3D Rendering
- Cloud Computing
- Virtualization
- Visualization Analysis and Design



6 x 2.5" SATA HDD or 6 x SAS (12Gb/s)

4 x 1200W (3+1 Redundant) CRPS PSU

		3U8G+/C621
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	722.3 x 430 x 170.35 mm
	Support MB Size	CEB, 12"x10.5" (EP2C621D16GM)
Front Panel	Buttons	Power On button, UID button, System reset button, NMI button
	LEDs	HDD Activity LED, System event LED, 2 x Front LEDs, 2 x LAN LEDs (L1, L2, LED)
	I/O Ports	2 x USB 2.0 ports, 1x VGA port
Storage	Front side	6 Bay 2.5" SATA HDD (6Gb/s) or 6 x SAS (12Gb/s)
System cooling	Fan	8 x 80*38 mm system fans
GPU support	GPGPU Watts	Max 300w /per card
	Support GPGPU	8 x GPGPU card or 8 x GPGPU/MIC
Power Supply	Capacity	4 (3+1), Redundant CPRS PSU
	Output Watts	1200W
	Efficiency	Platinum
Switch Board	Switch IC	PLX8747 x 4
	Input Connector	Card edge golden finger x2 for PDBMicro card
Additional PCIe switch		Front Right Angle 2 x16 finger each CPU to Midplane, total 4 x16 (need to bundle with ASRock Rack system board)

• Compatible Mezzanine Lan Card: M350R, M599R, MX710R

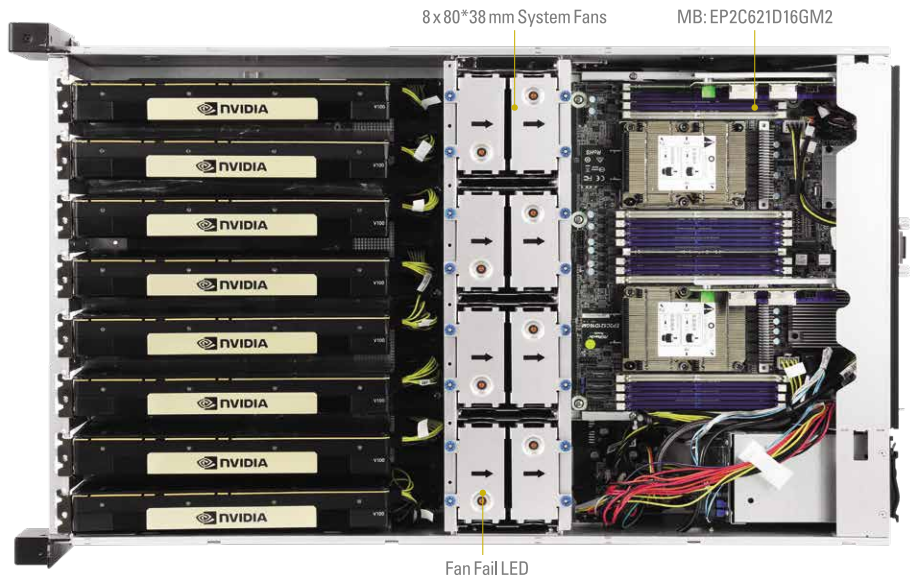
3U8G+/C621GM2



Storage



GPGPU



Application

- GPU Server
- 3D Rendering
- Cloud Computing
- Virtualization
- Visualization Analysis and Design



6x 2.5" SATA HDD or 6x SAS (12Gb/s)

4x 1200W (3+1 Redundant) CRPS PSU

		3U8G+/C621GM2
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	722.3mm X 430mm X 170.35 mm
	Support MB Size	EP2C621D16GM2(EEB, 12" x 13")
Front Panel	Buttons	Power On Button, UID, Reset, NMI, System Reset Button
	LEDs	HDD Activity LED, System event LED, 2 x Front LEDs, 2 x LAN LEDs (L1, L2, LED)
	I/O Port	2 x USB 3.0 ports, 1 x VGA port
Storage	External	6 Bay 2.5" SATA HDD (6Gb/s) or 6 x SAS (12Gb/s)
System Cooling	Fan	8 x 80*38 mm system Fans
GPU support	GPGPU watts	Max 300W/per card
	Support GPGPU	8 x GPGPU card or 8 x GPGPU/MIC
Power Supply	Capacity	4 (3+1), Redundant
	Output Watts	1200W
	Efficiency	Platinum
Switch board	Switch IC	PLX8747 x 4
	Input Connector	Card edge golden finger x2 for PDBMicro card
Additional PCIe switch	Switch IC	Front Right Angle 2x16 finger each CPU to midplane, total 4x16 (need to bundle with ASRock Rack system board)

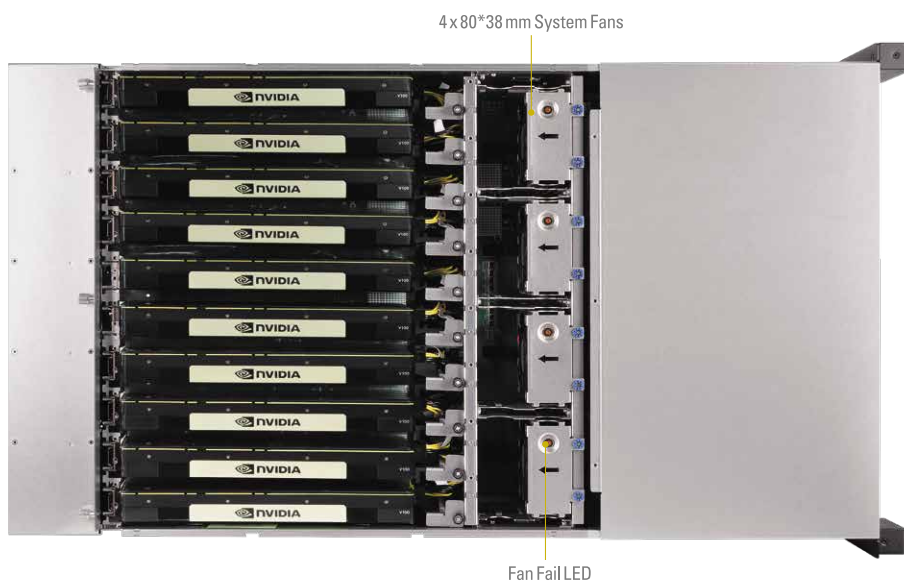
3U10G-F/C621



GPGPU

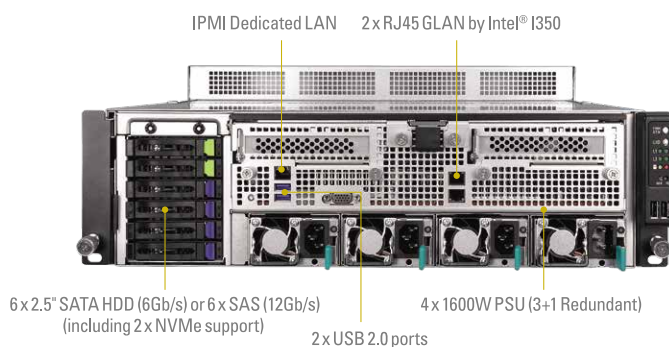


3647



Application

- Deep Machine Learning & VDI
- Artificial Intelligence
- Big Data Analytic Applications
- Scale-out HPC Platform
- Parallel Computing



		3U10G-F/C621
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	711mm X 430mm X 177.8mm
	Support MB Size	CEB, 12"x10.5" (EP2C621D16GM)
Front Panel	Buttons	Power On button, UID button, System reset button, NMI button
	LEDs	HDD Activity LED, System event LED, 2x Front LEDs, 2x LAN LEDs (L1, L2, LED)
	I/O Ports	2 x USB 2.0 ports
Storage	Front side	6 Bay 2.5" SATA/SAS HDD (including 2 x NVMe support (Cable optional*))
System cooling	Fan	9 x 80*38 mm system fans (4 center + 5 rear)
GPU support	GPGPU Watts	Max 300w /per card
	Support GPGPU	10 x GPGPU/MIC card
Power Supply	Capacity	4 (3+1), Redundant CPRS PSU
	Output Watts	1600W
	Efficiency	Platinum
Switch Board	Switch IC	- PLX 8796 x 2
	Topology	- Single Root Topology
		- Micro card connector vertical(80pin) x4 for IPB
Additional PCIe switch		Front Right Angle 2 x16 finger each CPU to Midplane, total 4 x16 (need to bundle with ASRock Rack system board)

• Compatible Mezzanine Lan Card: M350R, M599R, MX710R

1U1G-W680/2L2T



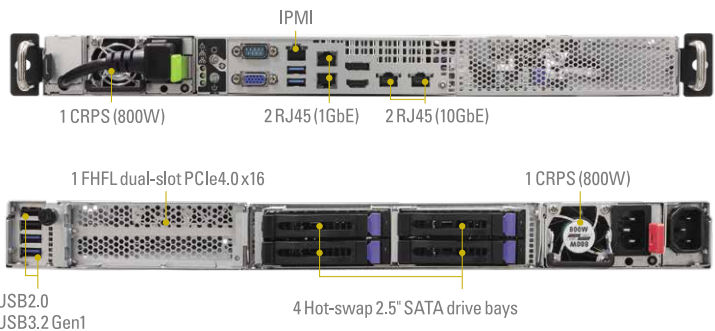
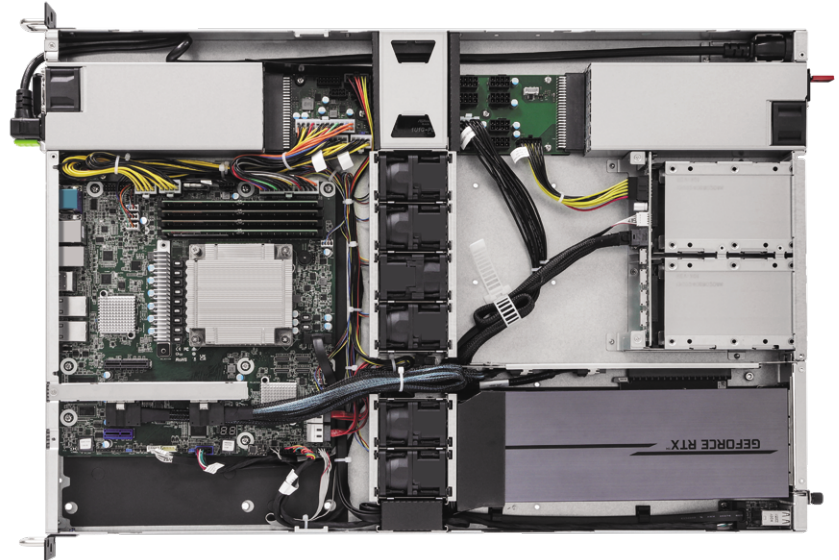
GPGPU



DDR5



PCI-E5.0



1U1G-W680/2L2T

CPU	Socket	1 Socket LGA 1700; Supports Intel® Core™ 14th Gen, 13th & 12th Gen Intel® Core™ series processors
DIMM	Slot	4 DDR5 288-pin (2DPC)
System Physical	Form Factor	1U Rackmount
Status	Chassis Dimension	650.0 x 438.0 x 43.5 mm (25.60" x 17.24" x 1.71")
Front Panel	Buttons LEDs I/O	Power button w/ LED, UID button w/ LED, System Reset System Fault, LAN1/LAN2 Activity 1 DB15 (VGA), 1 HDMI, 1 DisplayPort 1 DB9 (COM) 2 USB Type-A (USB3.2 Gen1) 2 RJ45(10GbE), 2 RJ45(1GbE), 1 dedicated IPMI
Rear IO	USB	2 Type-A (USB3.2 Gen1), 2 Type-A (USB2.0)
Expansion Slots	Rear	1 FHFL dual-slot PCIe4.0 x16 via U2G-RB1U2SL-G4/1U1GX570 and 1U4G_SL2P_R_RDV
Drive Bay/Storage	External Internal	4 Hot-swap 2.5" SATA 6Gb/s drive bays 1 M-key (PCIe3.0 x4), support 2280/2260/2242/2230 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CRPS
System Cooling	Fan	5 PWM single-rotor 40x56 mm fans 1 PWM dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

1U1G-WC422/2T



10Gbase-T

4x2.5" U.2



Application

- Cloud Gaming
- Redering Machine
- Content Creation



800W (1+1) Redundant PSU



1U1G-WC422/2T

CPU	Socket	1 LGA2066, supports Intel® Xeon® W-2200/ W-2100 Processors
DIMM	Slot	8 DDR4 288-pin (2DPC); Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 2933MHz (1DPC)/ 2666MHz (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438 x 650 x 43.5 mm (without ear)
Front Panel	Buttons	UID , Power , Reset
Front IO	LEDs	System Fail, LAN1, LAN2
	RJ45	2 RJ45(10GbE) by Intel® X550-AT2 1 dedicated IPMI via AST2500
	USB	2 USB3.2 Gen2, 4 USB3.2 Gen1
	Video	1 DB15 via AST2500
	Audio	5 audio jack + SPDIF
Rear IO	USB	2 USB3.2 Gen1, 2 USB 2.0
Expansion Slots	Rear	1 PCIe3.0 x16 for dual slot cards
Storage	External Drive Bay	4 SFF 2.5" (PCIe3.0x4/ SATA)*
	Internal Storage	1 M-key (PCIe3.0x4/SATA), 1 M-key (PCIe3.0x4)
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CRPS
System Cooling	Fan	6 dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory (TPM2-S)

*SATA interface is BTO

1U1G-C256/2L2T



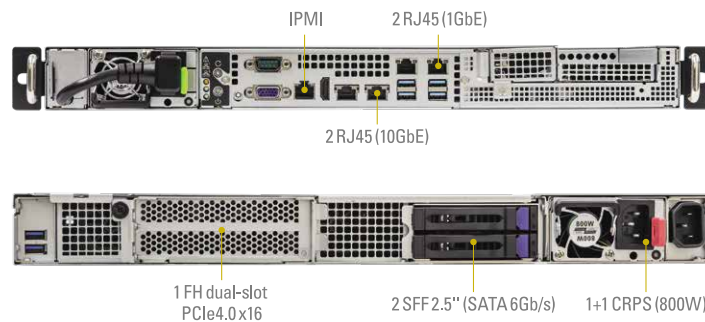
3200



PCI-E 4.0



GPGPU



1U1G-C256/2L2T		
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438.0x 660.4x 43.5 mm (without ear)
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Reset, Power w/ LED, UID w/ LED
	LEDs	System Fail, LAN1, LAN2
	I/O	2 RJ45(10GbE) by Intel X710-AT2, 2 RJ45 (1GbE) by i210, 2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 DB9 (COM), 1 HDMI, 1 dedicated IPMI
Rear IO	USB	2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	1 FH dual-slot PCIe4.0 x16
Drive Bay/ Storage	External	2 SFF 2.5" (SATA 6Gb/s)
	Internal	1 M-key ^{Note} (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4); support 2280/2260 form factor [PCH]
Power Supply	Module	1+1 Platinum 800W CRPS
System Cooling	Fan	6 single-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note: SATA0 will be disabled when M2_1 populated with SATA device

1U2N2G-C252/2T



GPGPU



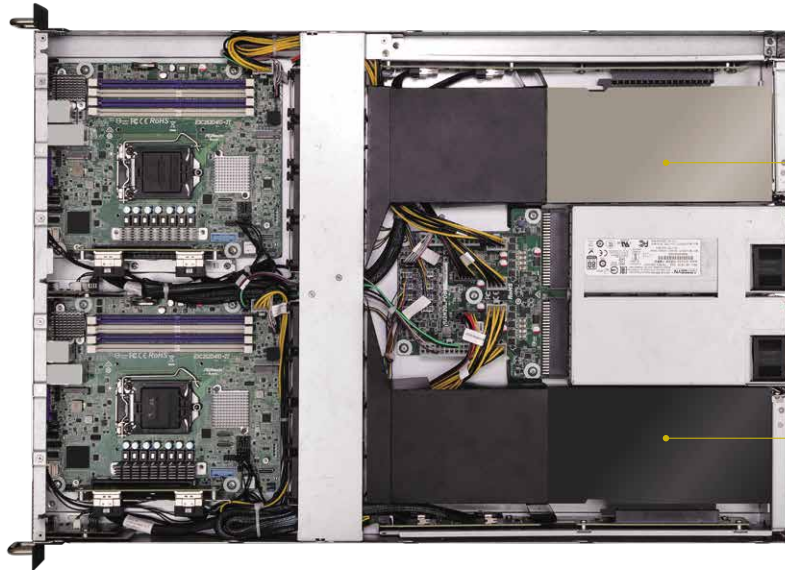
10Gbase-T



3200



PCI-E 4.0



FH dual-slot PCIe4.0x16



2 RJ45 (10GbE)

2 RJ45 (10GbE)



1+1 Platinum 1200W CRPS

1U2N2G-C252/2T		
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
CPU (per node)	Socket	Socket H5 (LGA1200) for Intel® Xeon® E-2300 and 10th Gen Intel® Pentium® Series Processors
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)
Front Panel (per node)	Buttons	UID w/LED, Power w/LED
	LEDs	System Fail
	RJ45	2 RJ45(10GbE) by Intel X710-AT2 1 dedicated IPMI
	USB	2 USB 3.2 Gen1 ports
	VGA	1 DB15
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe4.0 ^{Note1} x16
Storage (per node)	Internal	1 M-key ^{Note2} (PCIe4.0 x4); supports 2280 form factor [CPU]
		1 M-key (PCIe3.0 x4); supports 2280 form factor [PCH]
Power Supply	Module	1+1 Platinum 1200W CRPS
System Cooling	Fan	8 dual-rotor 40x56 mm fans
Management (per node)		ASPEED BMC AST2500
Security (per node)		TPM by optional accessory

Note1: Supports PCIe3.0 only when installing 10th Gen Intel® Pentium® Series Processors
 Note2: M.2 from CPU will not function when installing 10th Gen Intel® Pentium® Series Processors

1U1G-GENOA/M3



4800



PCI-E 5.0



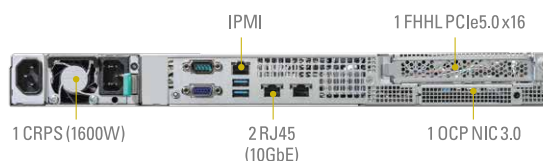
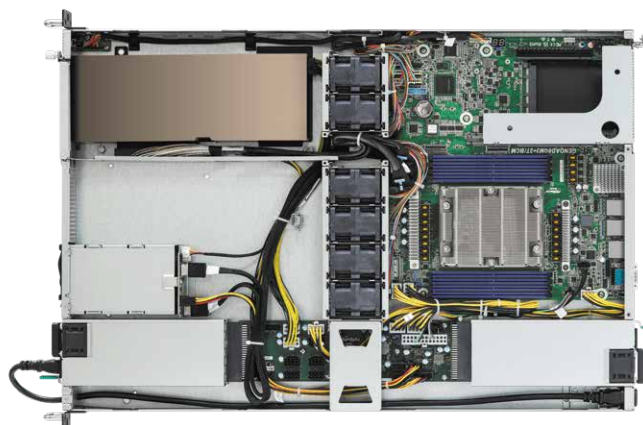
OCP NIC 3.0



GPGPU



10Gbase-T



Application

- Rendering
- Virtualization
- Visualization
- Deep Learning

1U1G-GENOA/M3

CPU	Socket	1 Socket SP5 (LGA 6096) AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	653.5 x 438.0 x 43.5 mm (25.73" x 17.24" x 1.71")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset
	LEDs	System Fault, LAN1/LAN2 Activity
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Intel® Broadcom BCM57416
	Others	1 dedicated IPMI
		1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Front	1 FHFL dual-slot PCIe5.0x16
	Rear	1 FHHL PCIe5.0x16 via RB1UX16R_G5 1 OCP NIC 3.0 (PCIe5.0x16)
Drive Bay/ Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0x4) drive bays
	Internal	1 M-key (PCIe5.0x4 or SATA 6Gb/s), supports 22110/2280 form factor 1 M-key (PCIe5.0x4 or SATA 6Gb/s), supports 2280 form factor
Power Supply	Module	1+1, 1600W CRPS
System Cooling	Fan	6 PWM dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

2U4G-GENOA/M3



4800



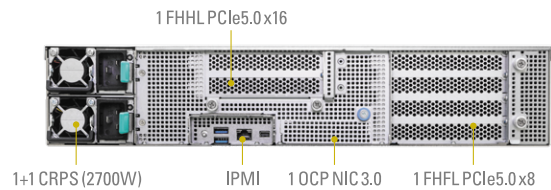
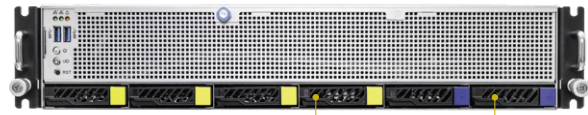
PCI-E 5.0



GPGPU



OCP NIC 3.0



Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization

2U4G-GENOA/M3

CPU	Socket	1 Socket SP5 (LGA 6096) AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 360W
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	850 x 438 x 87.5 mm (33.5" x 17.2" x 3.5")
Front Panel	Buttons	Power, UID
	LEDs	System fault, UID, Power LEDs
	I/O	2 Type-A (USB2.0)
Rear IO	RJ45	1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 mini-DisplayPort (VGA), 1 UID button w/ LED
Expansion Slots	Front	3 FH dual-slot PCIe5.0 x16
	Rear	1 FH dual-slot PCIe5.0 x16 1 OCP NIC 3.0 PCIe5.0 x16 1 FHHL PCIe5.0 x16 1 FHFL PCIe5.0 x8
	External	4 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays 2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	Module	1+1, 80-PLUS Platinum, 2700W CRPS
Power Supply	Module	1+1, 80-PLUS Platinum, 2700W CRPS
System Cooling	Fan	1 PWM hot-swap 80x80 mm fans 3 PWM hot-swap 80x38 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

4U4G-GENOAX/2T

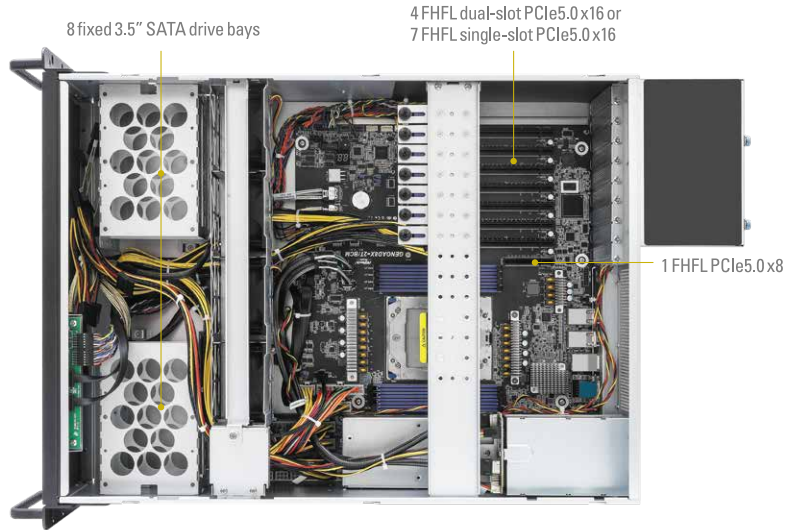


4800

PCI-E 5.0

GPGPU

10Gbase-T



2 Hot-swap 2.5" NVMe (PCIe4.0x4) drive bays



Application

- Data Processing
- Deep Learning
- Mainstream Workstation

		4U4G-GENOAX/2T
CPU	Socket	1 Socket SP5 (LGA 6096) AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9", without GPU fans)
Front Panel	Buttons	Power w/ LED, ID w/ LED, System Reset, NMI
	LEDs	LAN Activity, HDD Activity, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
	Others	1 dedicated IPMI
		2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	4 FHFL dual-slot PCIe5.0x16 or 7 FHFL single-slot PCIe5.0x16 ^{Note1} 1 FHFL PCIe5.0x8 ^{Note2}
Drive Bay/ Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0x4) drive bays ^{Note1/2}
	Internal	8 fixed 3.5" SATA drive bays ^{Note2} 1 M-key (PCIe5.0x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor 1 M-key ^{Note1} (PCIe5.0x4), supports 22110/2280 form factor
Power Supply	Module	1+1, 2700W CRPS
System Cooling	Fan	4 PWM Hot-swap 80x38 mm fans 2 PWM fixed 80x38 mm GPU fans (optional)
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

Note1: SLOT1 shared lanes with MCI04 and M2_2. SLOT1 auto-switch to PCIe5.0x8 when either MCI04 or M2_2 populated.

Note2: SLOT7 share lanes with MCI01 and MCI02. When SLOT7 occupied, MCI01 will not function and MCI02 can be enabled by jumper setting. When selecting MCI02, SLOT7 will switch to PCIe4.

4U8G-GENOA2

4U10G-GENOA2



4800

PCI-E 5.0

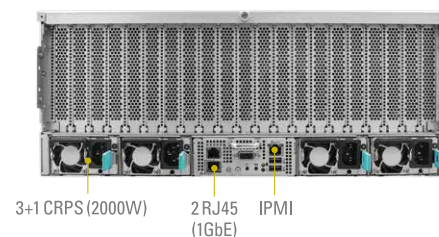
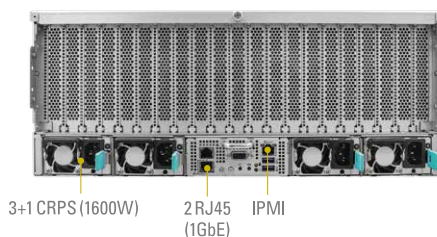
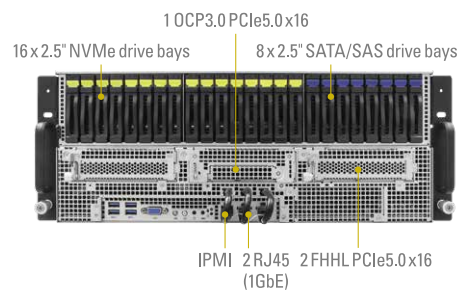
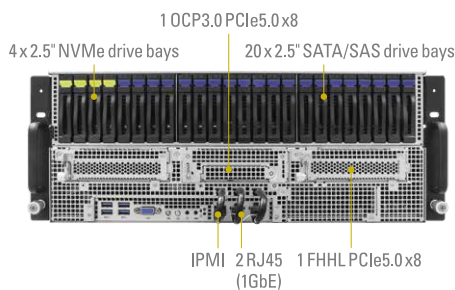
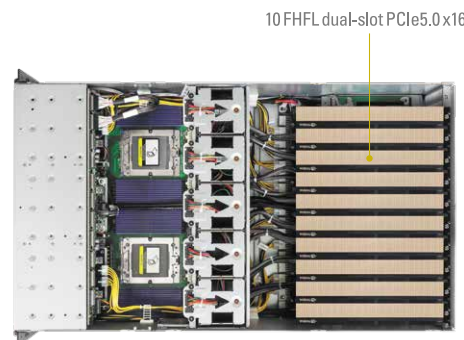
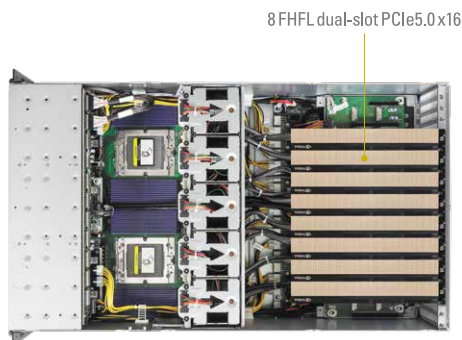


GPGPU

OCP NIC 3.0

Application

- Deep Learning
- Big Data Analytics
- HPC
- Machine Learning



4U8G-GENOA2

4U10G-GENOA2

CPU	Socket	1+1 Socket SP5 (LGA 6096) AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors	
DIMM	Slot	12+12 DDR5 288-pin (1DPC)	
System Physical Status	Form Factor	4U Rackmount	
	Chassis Dimension	786 x 438 x 176.5 mm (30.9" x 17.24" x 6.95")	
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 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 x8 1 OCP3.0 PCIe5.0 x8	2 FHHL PCIe5.0 x16 1 OCP NIC 3.0 PCIe5.0 x16
	Rear	8 FHFL dual-slot PCIe5.0 x16	10 FHFL dual-slot PCIe5.0 x16 ; 1 FHFL single-slot PCIe5.0 x16
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	
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0] 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]	
Power Supply	Module	3+1, 80-PLUS Platinum, 1600W CRPS	3+1, 80-PLUS Platinum/Titanium, 2000W CRPS
System Cooling	Fan	5 Middle Hot-swap 80x80 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	

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

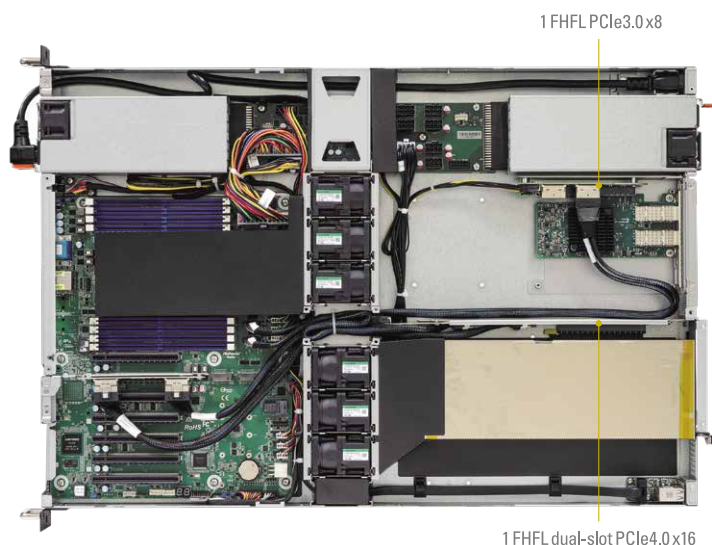
1U1G-MILAN/N



3200

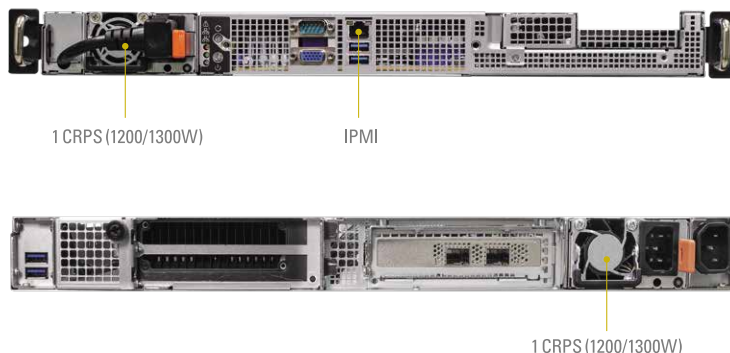


PCI-E 4.0



Application

- Visualization
- Rendering
- Virtualization
- Deep Learning



		1U1G-MILAN/N
CPU	Socket	1 Socket SP3 (LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
DIMM	Slot	8 DDR4 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26" x 17.2" x 1.7")
Front Panel	Buttons	Power, UID button w/ LED, Reset
	LEDs	System Fault LED
	I/O	2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 DB9 (COM), 1 dedicated IPMI
Rear IO	USB	2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	1 FHFL dual-slot PCIe4.0 x16 via 1U4G_SL2P_R_RDV 1 FHFL PCIe3.0 x8 via 4UXG_SL2P
Drive Bay/ Storage	Internal	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor
Power Supply	Module	1+1, 1200W/1300W CRPS
System Cooling	Fan	3 single-rotor 40x56 mm fans 3 dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

1U2N2G-ROME/2T



GPGPU



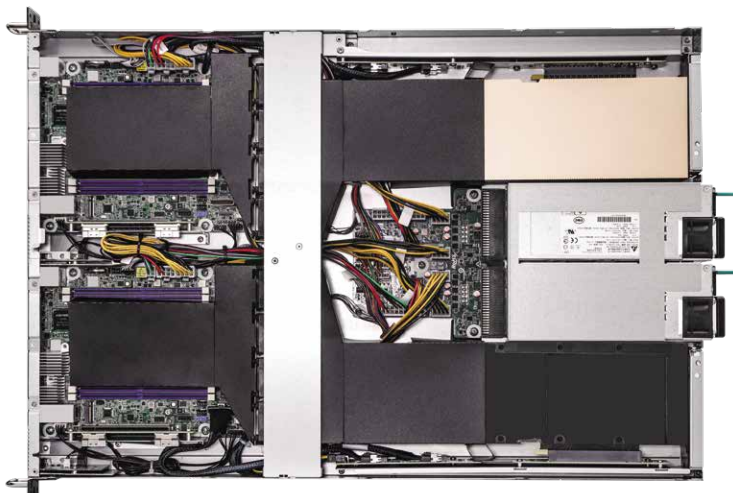
3200



PCI-E 4.0

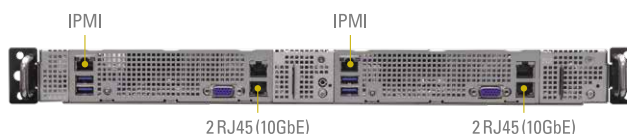


10Gbase-T



Application

- Visualization
- Rendering
- Virtualization
- Deep Learning



1U2N2G-ROME/2T

CPU (per node)	Socket	1 Socket SP3 (LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
DIMM (per node)	Slot	4 DDR4 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel (per node)	Buttons	UID w/LED, Power w/LED
	LEDs	System Fail
	I/O	2 RJ45(10GbE) by Intel® X550-AT2, 1 dedicated IPMI 2 Type-A (USB3.2 Gen1), 1 DB15 (VGA)
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe4.0x16
Storage (per node)	Internal	1 M-key (PCIe4.0x4 or SATA 6Gb/s), supports 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	8 PWM 40x56 mm fans
Management (per node)		ASPEED BMC AST2500
Security (per node)		TPM by optional accessory

1U4G-ROME

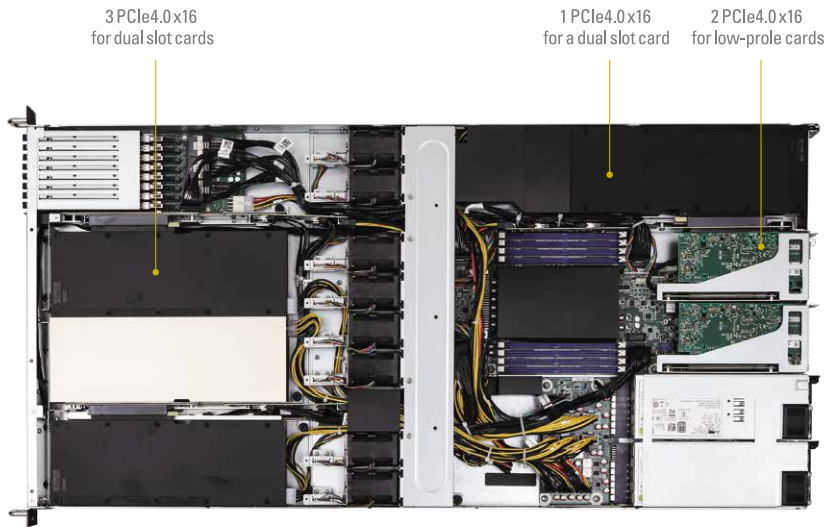
1U4G-ROME/2E



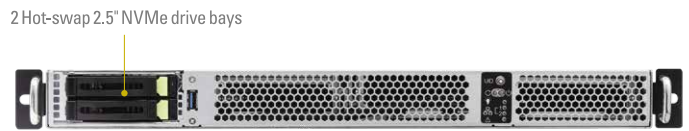
3200



PCI-E 4.0



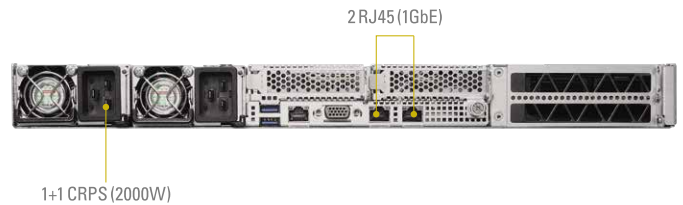
8 E1.S or M.2



2 Hot-swap 2.5" NVMe drive bays

Application

- High-performance Technical Computing
- Deep Learning
- Big Data Analytics
- Artificial Intelligence (AI)



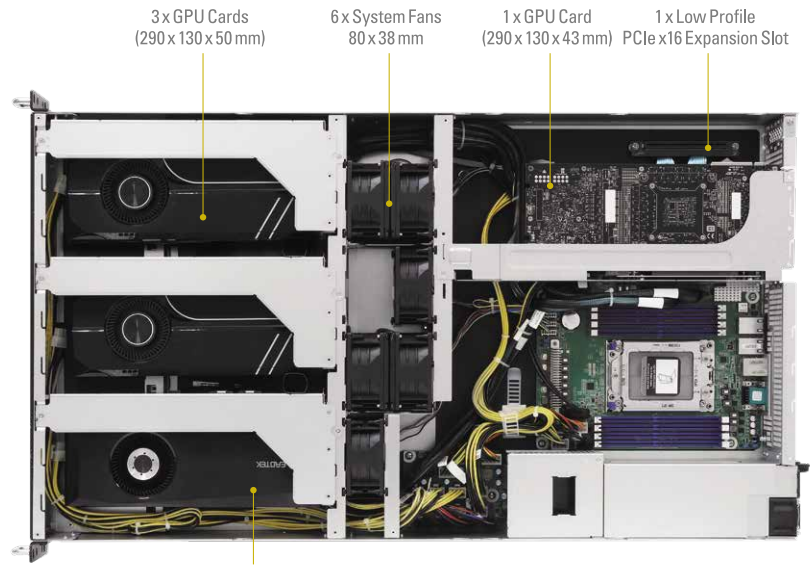
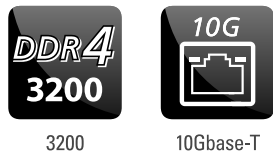
2 RJ45 (1GbE)

1+1 CRPS (2000W)

		1U4G-ROME	1U4G-ROME/2E
CPU	Socket	1 Socket SP3 (LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors	
DIMM	Slot	8 DDR4 DIMM slots (1DPC)	
System	Form Factor	1U Rackmount	
Physical Status	Chassis Dimension	880 x 438 x 43.5 mm (34.6" x 17.2" x 1.7")	
Front Panel	Buttons	UID , Power, Reset	
	LEDs	System Fail, Power, LAN1, LAN2	
	I/O	1 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel i350-AM2 1 dedicated IPMI	
	USB	2 Type-A (USB3.2 Gen1)	
	Others	1 DB15 (VGA)	
Expansion Slots	Front	3 PCIe4.0 x16 for dual slot cards ^{Note1}	
	Rear	1 PCIe4.0 x16 for a dual slot card ^{Note1} 2 PCIe4.0 x16 for low-profile cards	
Storage	External	8 E1.S or M.2 (PCIe4.0x4)	2 Hot-swap 2.5" NVMe (PCIe4.0x4) drive bays
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W CRPS	
System Cooling	Fan	8 dual-rotor 40x56 mm fans	
Management		ASPEED BMC AST2500	
Security		TPM 2.0 on board	

Note1: Active-cooled cards and cards with power connector on the top edge are not supported.

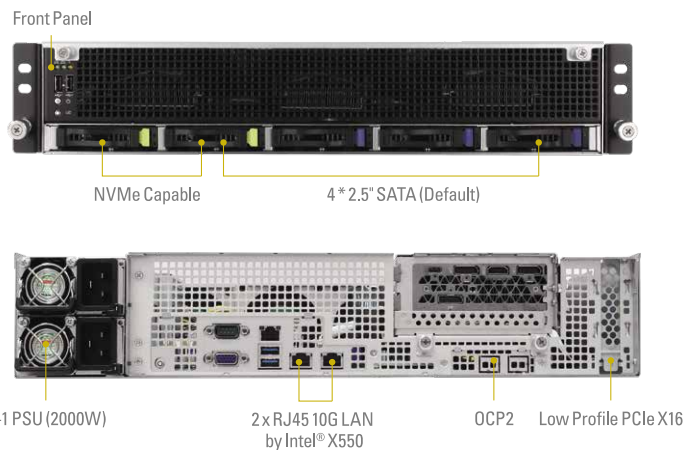
2U4G-ROME/2T



Sufficient Space Design to Install Multiple Graphics Cards has no Conflicts with PSUs

Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization



2U4G-ROME/2T

System Physical Status	Form Factor	2U Rackmount
	Chassis Model	2U4G-ROME/2T
	Chassis Dimension	795 x 438 x 87.5 mm (31.3" x 17.2" x 3.4")
	Support MB Size	ATX, 12"x9.6"(ROMED8QM-2T)
CPU		1 Socket SP3(LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
Drive Bay/ Storage	External	3 Hot-swap 2.5" SATA drive bays [Front]
	Internal	1 Hot-swap 2.5" NVMe drive bay [Front] 1 Hot-swap 2.5" NVMe/SATA drive bay [Front] 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor
Front Panel	Buttons	Power Button, UID Button
	LEDs	System LED, UID LED, Power LED, 2 x LAN LEDs (L1 , L2 LED)
	I/O Port	2 x USB 2.0 Ports
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W PSU
System Cooling	Fan	6 x 80*38mm System Fans

4U8G-ROME2/2T

4U8G-ROME2/2T-24S

4U8G-ROME2/2T-24S EOB



GPGPU



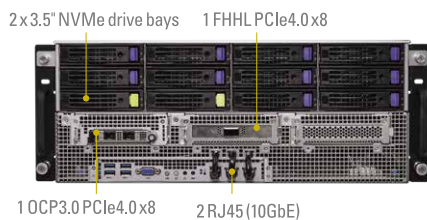
10Gbase-T



8 FHFL dual-slot PCIe4.0x16

Application

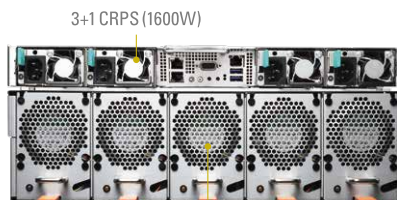
- Deep learning
- Big data analytics
- HPC
- Machine learning



2x 3.5" NVMe drive bays 1 FHHL PCIe4.0x8
1 OCP3.0 PCIe4.0x8 2 RJ45 (10GbE)



24x 2.5" SATA/SAS drive bays ^{Note2/3} 1 FHHL PCIe4.0x16
1 OCP3.0 PCIe4.0x16 2 RJ45 (10GbE) 1 FHHL PCIe4.0x8



3+1 CRPS (1600W)
5x Rear FAN

		4U8G-ROME2/2T	4U8G-ROME/2T-24S	4U8G-ROME2/2T-24S EOB
CPU	Socket	1+1 Socket SP3(LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors		
DIMM	Slot	16+16 DDR4 288-pin (2DPC)		
System Physical Status	Form Factor	4U Rackmount		
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED		
	LEDs	System fault LED, HDD activity LED		
	I/O	2 RJ45 (10GbE) by Intel® X550-AT2, shares with Rear IO 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)		
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2, shares with Front Panel		
	Others	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel		
Expansion Slots	Front	1 FH PCIe4.0x8 1 OCP3.0 PCIe3.0x8	3 FHHL PCIe4.0x8	
	Rear	8 FHFL dual-slot PCIe4.0x16		
Drive Bay/ Storage	External	2 Hot-swap 3.5" NVMe (PCIe4.0x4) drive bays 10 Hot-swap 3.5" drive bays ^{Note1}	24 Hot-swap 2.5" SATA/SAS drive bays ^{Note2}	24 Hot-swap 2.5" SATA/SAS drive bays ^{Note3}
	Internal	1 M-key (PCIe4.0x4), supports 22110/2280 form factor		
Power Supply	Module	3+1, 80-PLUS Platinum, 1600W CRPS		
System Cooling	Fan	5 Middle Hot-swap 80x80 mm fans 5 Rear Hot-swap 80x38 mm fans		
Management		ASPEED BMC AST2500		
Security		TPM by optional accessory		

Note1: Please contact ASRock Rack if additional 10 Hot-swap 3.5" drive bays need to be supported

Note2: Support 24 SAS/SATA drives bays by additional PCIe 24-port RAID/HBA card

Note3: Support 24 SAS/SATA drives bays by additional PCIe 4 or 8-port RAID/HBA card

4U10G-ROME2/2T



GPGPU



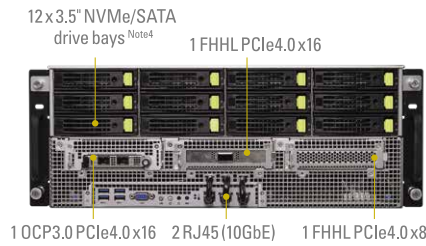
10Gbase-T



10 FHFL dual-slot PCIe4.0x16

Application

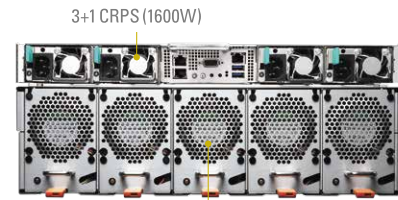
- Deep learning
- Big data analytics
- HPC
- Machine Learning



12x3.5" NVMe/SATA drive bays^{Note4}

1 FHFL PCIe4.0x16

1 OCP3.0 PCIe4.0x16 2 RJ45 (10GbE) 1 FHFL PCIe4.0x8



3+1 CRPS (1600W)

5 Rear FAN

4U10G-ROME2/2T

CPU	Socket	1+1 Socket SP3(LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	845 x 438 x 176.5 mm (33.27" x 17.24" x 6.95")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED
	I/O	2 RJ45 (10GbE) by Intel® X550-AT2, shares with Rear IO 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2, shares with Front Panel
	Others	UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel
Expansion Slots	Front	1 FH PCIe4.0x16 1 FH PCIe4.0x8 1 OCP3.0 PCIe4.0x16
	Rear	10 FHFL dual-slot PCIe4.0x16
Drive Bay/ Storage	External	12 Hot-swap 3.5" NVMe (PCIe4.0x4)/SATA drive bays ^{Note1}
	Internal	1 M-key (PCIe4.0x4), supports 22110/2280 form factor
Power Supply	Module	3+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	5 Middle Hot-swap 80x80 mm fans 5 Rear Hot-swap 80x38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Support 8 SAS/SATA drives bays by additional PCIe 8-port RAID/HBA card

3U4X-ROME/2T



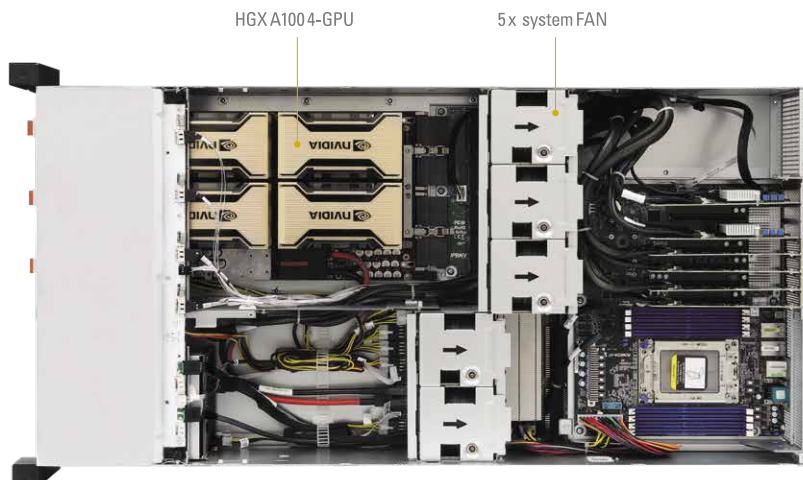
GPGPU



10Gbase-T

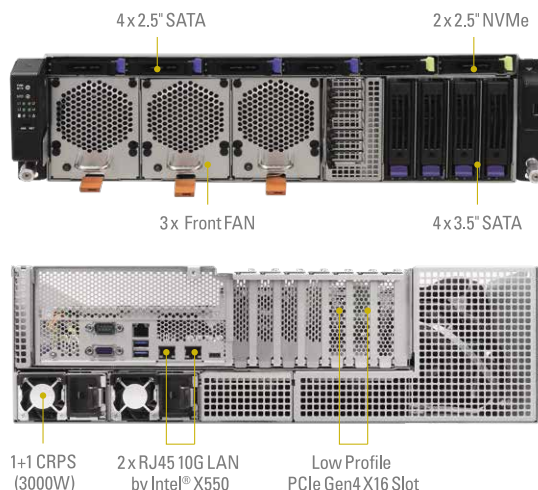


NVIDIA HGX A100



Application

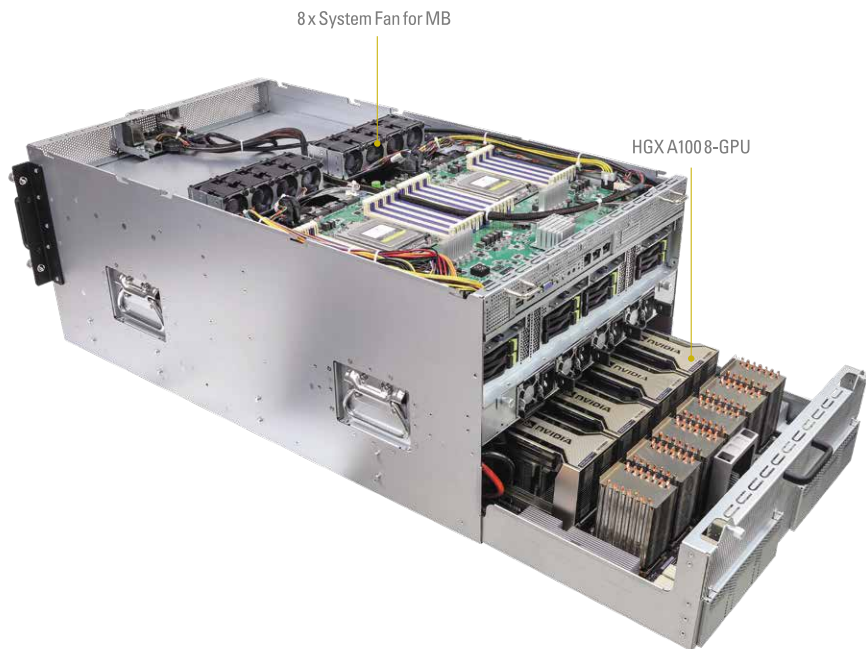
- Deep learning
- Big data analytics
- HPC
- Machine learning



3U4X-ROME/2T		
System Physical Status	Form Factor	3U Rackmount
	Chassis Model	3U4X
	Chassis Dimension	870 x 438 x 132.5mm (34.3" x 17.2" x 5.2")
	Support MB Size	ATX, 12" x 9.6" (ROMED8-2T)
CPU		1 Socket SP3(LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
System Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
Front Panel	Buttons	Power button, Reset button, NMI button, UID button w/ LED
	LEDs	System fault LED, HDD activity LED, LAN1, LAN2 LED
	I/O Port	1 x USB3.1 Ports
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port
Drive Bay/ Storage	External	2 Hot-swap 3.5" NVMe (PCIe4.0 x4)/SATA drive bays [Front] 2 Hot-swap 3.5" SATA drive bays [Front]
	Internal	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor ^{Note1}
		1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor ^{Note1}
Power Supply	Module	1+1, 80-PLUS Platinum, 3000W CRPS

Note1: Share with SLOT2 by jumper

7U8X-ROME2/2T



GPGPU



10Gbase-T



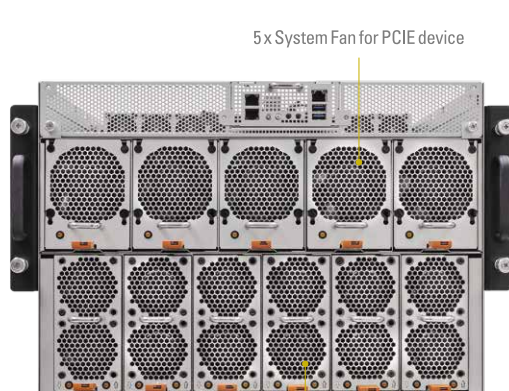
NVIDIA HGX A100



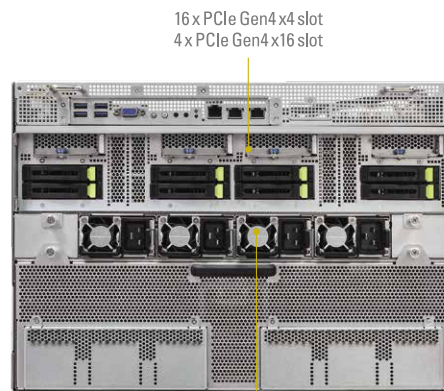
Deep Learning

Application

- Deep learning
- Big data analytics
- HPC
- Machine learning



12x System Fan for HGX A1008-GPU



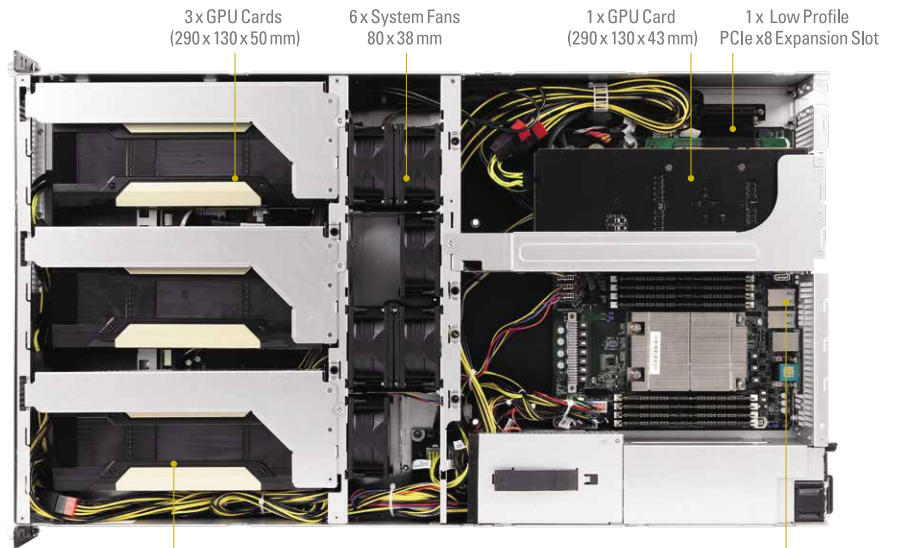
3+1 CRPS (3000W)

7U8X-ROME2/2T

System Physical Status	Form Factor	7U Rackmount
	Chassis Model	7U8X-ROME2
	Chassis Dimension	782 x 430 x 307 mm (30.8" x 16.9" x 12.1")
	Support MB Size	Proprietary, 16.5" x 13.81"(ROME2D32GM-2T)
CPU		1+1 Socket SP3(LGA4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology)/7002 series processors
System Memory		16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Front Panel	Buttons	Power On Button, UID, NMI, System Reset Button
	LEDs	Power LED, UID LED, HDD LED, System LED
	I/O Ports	2 x USB 3.0 Port, 2 x LAN Port(RJ45 10GbE)
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port
Expansion slots	Rear	4 low-profile PCIe4.0 x16 4 low-profile PCIe4.0 x8
Storage		8 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
Power Supply	Module	3+1, 80-PLUS Platinum, 3000W CRPS
System Cooling	Fan	8 x 40*56 mm PWM systems fans
		5 x 80*80 mm PWM systems fans
		12 x 60*76 mm PWM systems fans

2U4G-EPYC-2T

2U4G-EPYC



Sufficient Space Design to Install Multiple Graphics Cards has no Conflicts with PSUs

2x 10GBase-T LAN ports (2U4G-EPYC-2T)

Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization

Front Panel



		2U4G-EPYC-2T	2U4G-EPYC
System Physical Status	Form Factor	2U Rackmount	2U Rackmount
	Chassis Dimension	795 x 438 x 87.5 mm (31.3" x 17.2" x 3.4")	795 x 438 x 87.5 mm (31.3" x 17.2" x 3.4")
	Support MB Size	ATX, 12" x 9.6"	ATX, 12" x 9.6"
CPU		1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors	1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors
Front Control Panel	Buttons	Power Button, UID Button	Power Button, UID Button
	LEDs	System LED, UID LED, Power LED, 2x LAN LEDs (L1, L2 LED)	System LED, UID LED, Power LED, 2x LAN LEDs (L1, L2 LED)
	I/O Ports	2x USB 2.0 Ports	2x USB 2.0 Ports
MB Tray	VGA Port	1x D-Sub	1x D-Sub
	Serial Port	1x COM Port	1x COM Port
	USB 3.0 Port	2 Ports	2 Ports
	LAN Port	RJ45:2(10G)+1(IPMI)	RJ45:2(1G)+1(IPMI)
	UID	1	1
GPGPU Support	GPGPU Watts	Max 300W Per Card (if Use Single Width Card, Max 150W)	
	GPU Card Quantity	4x GPGPU/MIC Cards (Double Width) or 8x GPU/PCIe Cards (Single Width)	
External Drive Bay	Front Side Drive Bay	4 x 2.5" SATA 6GB/s HDDs (1 x SATA3 HDD could support NVMe or SATA3 6GB/s HDDs) + 1 x NVMe	
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W PSU	1+1, 80-PLUS Platinum, 2000W PSU
System Cooling	Fan	6 x 80*38mm System Fans	6 x 80*38mm System Fans

4U4G-EPYCD8-2T



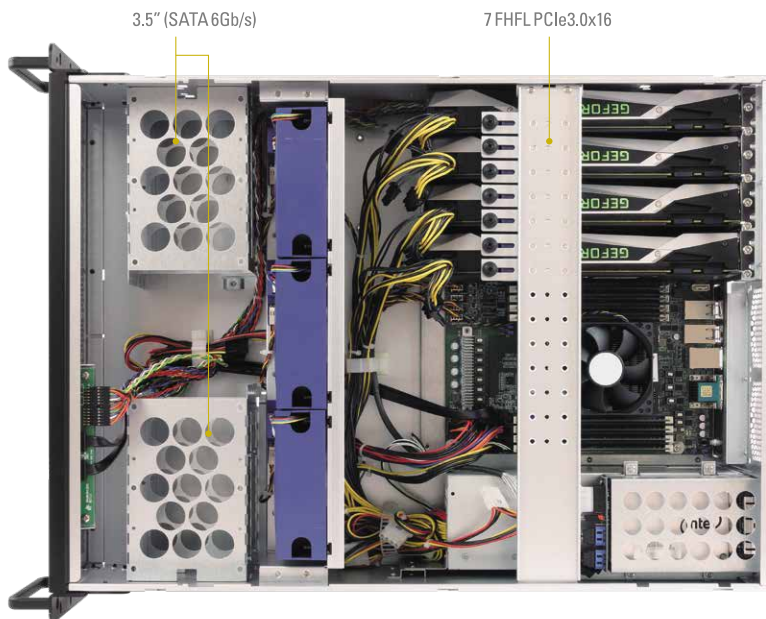
3200



4 Dual Slot
PCIe x16



10Gbase-T



Application

- Deep Learning
- Data Processing
- Mainstream Workstation



4U4G-EPYCD8-2T

System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	525x 430 x 174.8mm (20.7" x 16.9" x 6.9")
	Support MB	EPYCD8-2T
CPU		1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion Slots	Rear	7 PCIe3.0 x16 single slot, supports 4 FHFL dual slot GPU cards
Storage	External	2 Hot-swap 2.5" SFF bays at rear
	Internal	8 internal 3.5" LFF bay at front
		2 M.2 (PCIe3.0x4 or SATA 6Gb/s)
Rear IO	RJ45	2 10GbE via X550-AT2, 1 Dedicated IPMI
	Others	2 USB3.2 Gen1, 1DB15 (VGA), 1 DB9 (COM)
Front Panel	Buttons	Power switch, System reset
	LEDs	Power status, HDD, LAN activity LEDs
	I/O Port	2 USB 2.0
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	3 120x38 mm PWM fans
		2 external 8038 fans (optional)

1U2N2G-AM5/2T



GPGPU



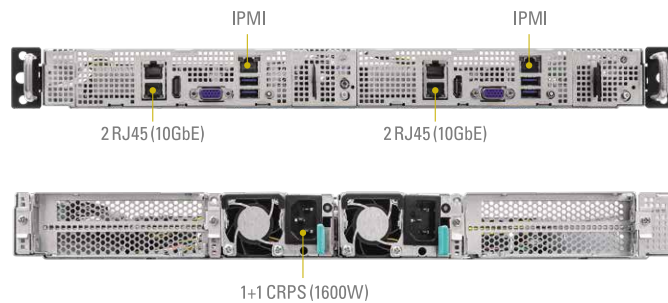
10Gbase-T



1 FH dual-slot PCIe5.0x16

Application

- Powered by Ryzen 7000 Series Processors



		1U2N2G-AM5/2T
CPU (per node)	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel (per node)	Buttons	UID w/LED, Power w/LED
	LEDs	System Fail
	I/O	2 RJ45 (10GbE) by Broadcom BCM57416, 1 dedicated IPMI 2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 HDMI
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe5.0 x16
Storage (per node)	Internal	1 M-key (PCIe5.0 x4), supports 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	8 PWM Hot-swap 40x56 mm fans
Management (per node)		ASPEED BMC AST2600
Security (per node)		TPM by optional accessory

1U1G-B650/2L2T

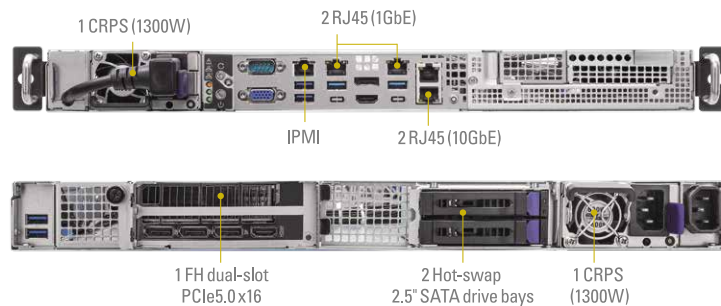
1U1G-B650



GPGPU



10Gbase-T



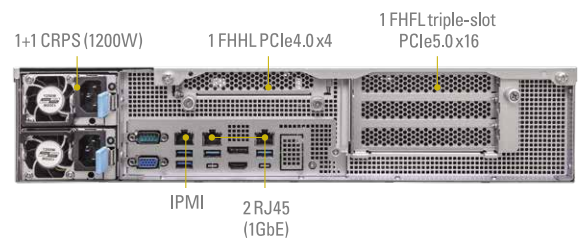
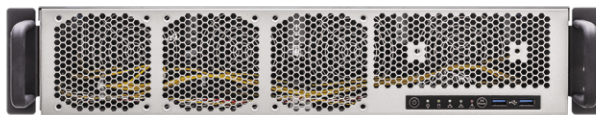
		1U1G-B650/2L2T	1U1G-B650
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors	
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System	Form Factor	1U Rackmount	
Physical Status	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26.00" x 17.24" x 1.71")	
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset	
	LEDs	System Fault, LAN1/LAN2 Activity	
Front Panel	I/O	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI 4 USB Type-A (USB3.2 Gen1) 1 DB15 (VGA), 1 DisplayPort, 1 HDMI 1 DB9 (COM)	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI 4 USB Type-A (USB3.2 Gen1) 1 DB15 (VGA), 1 DisplayPort, 1 HDMI 1 DB9 (COM)
	Rear IO	USB	2 Type-A (USB3.2 Gen1)
Expansion Slots	Front	1 FHHL PCIe4.0 x4 ^{Note1}	
	Rear	1 FHFL dual-slot PCIe5.0 x16	
Drive Bay/Storage	External	2 Hot-swap 2.5" SATA drive bays	
	Internal	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU] 1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 1300W CRPS	
System Cooling	Fan	6 PWM dual-rotor 40x56 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	

Note1: 1 FHHL PCIe4.0 x4 support requires additional PCIe4.0 x4 to x16 riser cable please contact ASRock Rack.

2U1G-B650



GPGPU



2U1G-B650		
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors
DIMM	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	2U Rackmount
Physical Status	Chassis Dimension	477.7 x 430.4 x 88 mm (18.8" x 16.9" x 3.5")
Front Panel	Buttons	Power button w/ LED, System Reset button
	LEDs	System Fail LED, LAN1/LAN2 Activity, Power Status LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	4 Type-A (USB3.2 Gen1)
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI
Expansion Slots	Rear	1 FHFL triple-slot PCIe5.0 x16 1 FHHL PCIe4.0 x4
Drive Bay/Storage	Internal	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]
		1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 1200W CRPS
System Cooling	Fan	4 PWM easy-swap 80x38 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

1U2N2G-B550/2T

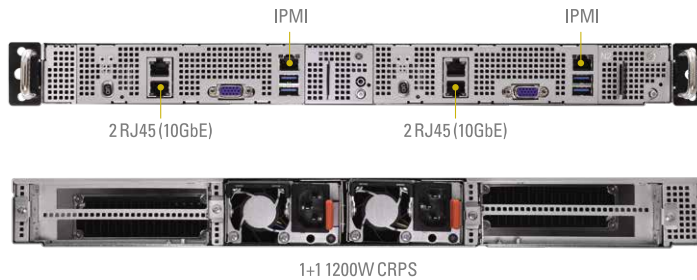
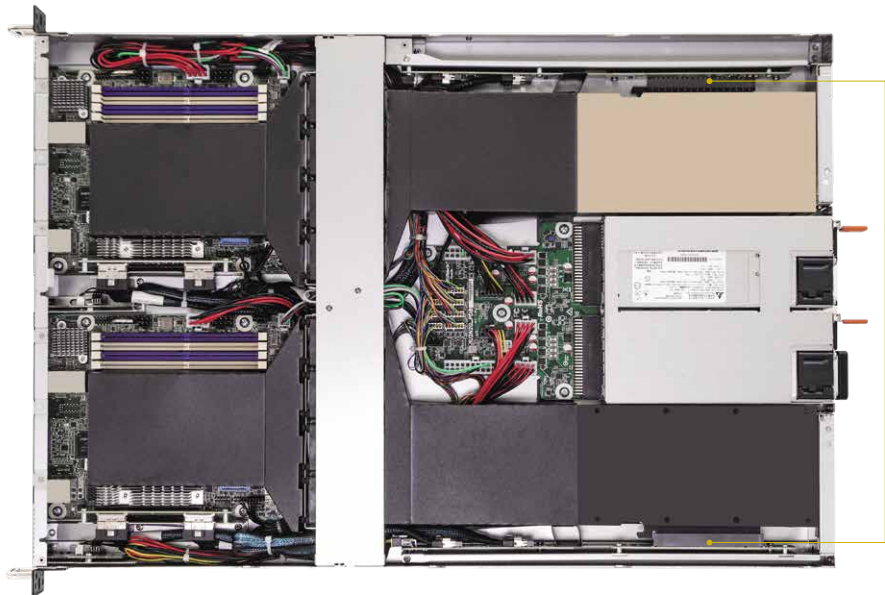
1U2N2G-B550



GPGPU



10Gbase-T



		1U2N2G-B550/2T	1U2N2G-B550
CPU (per node)	Socket	1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series desktop processors	
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)	
System Physical Status	Form Factor	1U Rackmount	
	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")	
Front Panel (per node)	Buttons	UID , Power w/LED	
	LEDs	UID, System Fail	
	RJ45	2 RJ45(10GbE) by Intel® X710-AT2 1 dedicated IPMI	2 RJ45(1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 USB 3.2 Gen1 ports	
	VGA	1 DB15	
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe4.0 ^{Note1} x16	
Storage (per node)	Internal	1 M-key (PCIe4.0 ^{Note1} x4 or SATA 6Gb/s), supports 2280 form factor [CPU]	
Power Supply	Module	1+1 Platinum 1200W CRPS	
System Cooling	Fan	8 dual-rotor 40x56 mm fans	
Management (per node)		ASPEED BMC AST2500	
Security (per node)		TPM by optional accessory	

Note1: Supports PCIe3.0 when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics

1U1G-X570/2L2T

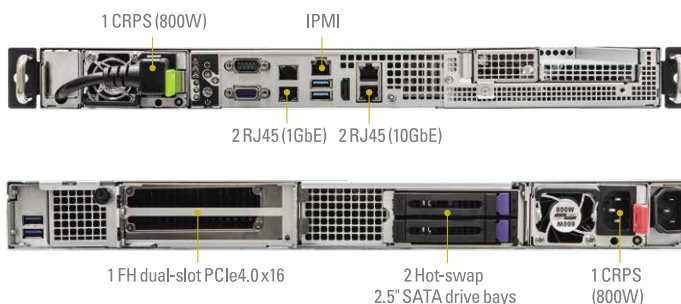
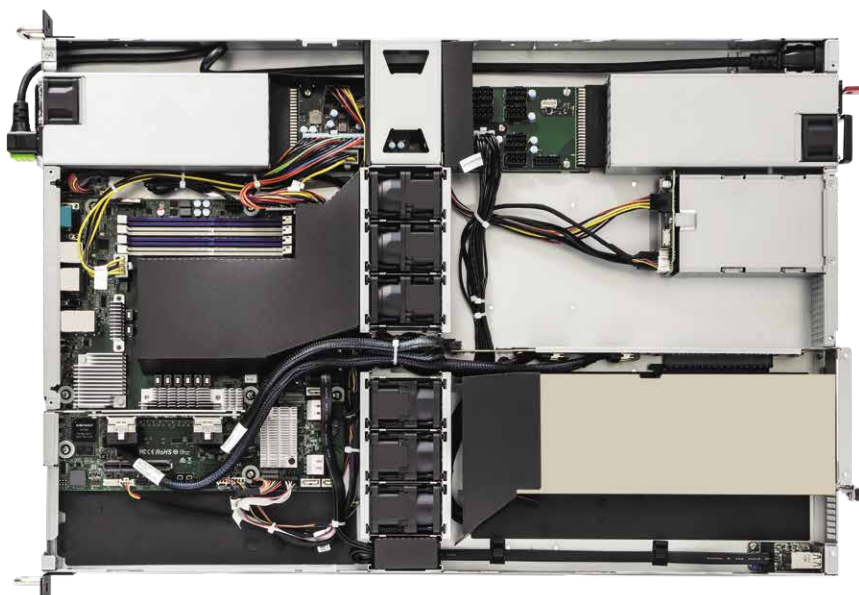
1U1G-X570



GPGPU



10Gbase-T



		1U1G-X570/2L2T	1U1G-X570
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors	
DIMM	Slot	4 DDR4 288-pin (2DPC)	
System Physical Status	Form Factor	1U Rackmount	
	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26" x 17.24" x 1.71")	
Front Panel	Buttons	Reset, Power w/ LED, UID w/ LED	
	LEDs	System Fail, LAN1, LAN2	
Front Panel	I/O	2 RJ45(10GbE) by Intel® X550-AT2 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI 2 USB3.2 Gen2 ports 1 DB15 (VGA), 1 DB9 (COM), 1 HDMI	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI 2 USB3.2 Gen2 ports 1 DB15 (VGA), 1 DB9 (COM), 1 HDMI
	Rear IO	USB	2 USB3.2 Gen1 ports
Expansion Slots	Rear	1 FH dual-slot PCIe4.0 x16 ^{Note1}	
Drive Bay/Storage	External	2 Hot-swap 2.5" SATA drive bays	
	Internal	1 M-key (PCIe4.0 ^{Note2} x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU] 1 M-key (PCIe4.0 ^{Note2} x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]	
Power Supply	Module	1+1 Platinum 800W CRPS	
System Cooling	Fan	6 single-rotor 40x56 mm fans	
Management		ASPEED BMC AST2500	
Security		TPM by optional accessory	

Note1: Supports PCIe3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics
Supports PCIe3.0 x16 when using AMD Ryzen 4000G Series Processors with Radeon Graphics

Note2: Supports PCIe3.0 when using AMD Ryzen 4000G and 3000G Series Processors with Radeon Graphics

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