

AMD EPYC™ 9005 Processors

Optimized Performance for AI-enabled Data Center Workloads

General Purpose Storage/All-flash NVMe/Multi-node/GPU Barebones/Server Motherboards



AMD 
EPYC

Server Platform Naming Rule

TURIN2D16-2T/ROT

Character	Representation	Options
N	Chipset	TURIN, GENOA, BERGAMO = AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
N+1	Number of CPU Supported	2 = Dual - NA = Single
Others	Number of DIMM Supported	- D8 = 8 DIMM - D12 = 12 DIMM - D16 = 16 DIMM - D24 = 24 DIMM - D48 = 48 DIMM
	Form Factor	- H = Half-width - UD = Deep Micro-ATX (10.4"x10.5") - T = T-shape
	Feature	- N = Non-shading side-by-side CPU - G = For GPU server - ROT = Root of Trust - Q = OCP slot not in standard I/O area, multi-SlimSAS to the front - M3 = OCP NIC 3.0 slot 2Q = Dual 25GbE SFP28 by Broadcom BCM57414 2T = Dual 10GbE RJ45 by Intel® X710 2T/X550 = Dual 10GbE RJ45 by Intel® X550 2T/BCM = Dual 10GbE RJ45 by Broadcom BCM57416 2L = Dual 1GbE RJ45 by Intel® i210 2L+ = Dual 1GbE RJ45 by Intel® i350

1U4L4E-GENOA/2T

Character	Representation	Options
1 st + 2 nd	System Height	1U = 1U chassis 2U = 2U chassis 4U = 4U chassis 10U = 10U chassis 20U = 20U chassis
Others	Drive Bay	- L = 3.5" HDD Bay - S = 2.5" HDD/SSD Bay - E = U.2 Bay - E1S = E1.S Bay
	Feature	- G = Dual-slot cards supported - X = NVIDIA HGX™ platform integrated - M = AMD Instinct™ MI300X/MI325X platform integrated - N = Number of nodes - F = Front I/O - EVAC = Extended Volume Air Cooling heatsink

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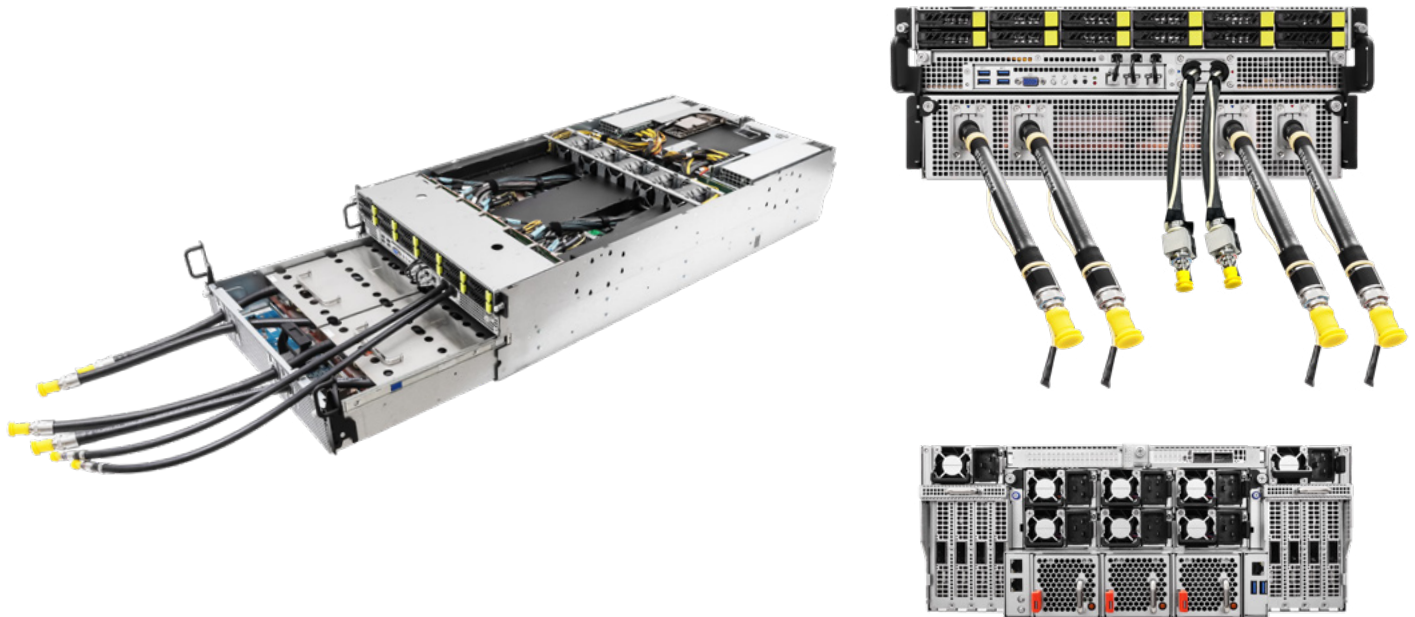
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4U8M-TURIN2/DLC SYN MI355X



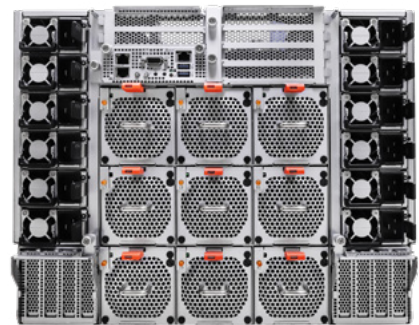
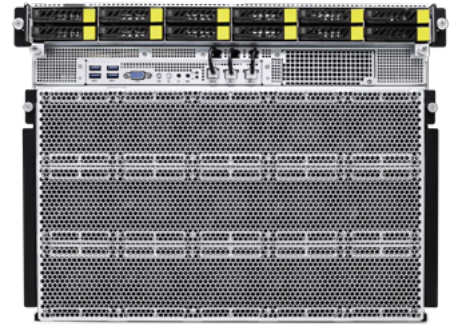
Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
GPU	Supported GPU	AMD Instinct™ MI355X platform with Infinity Fabric™ Links
PCIe Switch	PCIe Switch	PEX89104
	Operation Mode	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage
DIMM	Slot	12+12 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/sRDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	919 x 435 x 175 mm (36.2" x 17.1" x 6.9")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button, NMI button
	LEDs	System fault LED, HDD activity LED
	I/O	2 RJ45 (1GbE) by Intel i350, shares with rear I/O
		1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with front panel 1 dedicated IPMI, shares with front panel
	Others	Power button w/ LED, UID button w/ LED, 2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	9 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 CPU
	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	6+2, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	10 PWM 60x56 mm fans
	Liquid Cool	Direct-to-chip single phase liquid cooling
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

8U8M-TURIN2 SYN MI355X



Application

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



AMD Instinct™
MI355X



PCI-E 5.0



6400



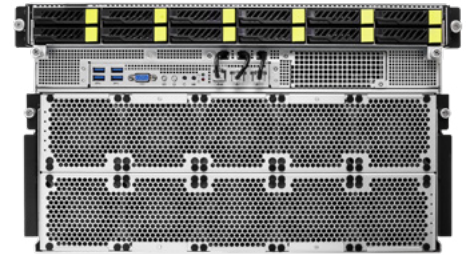
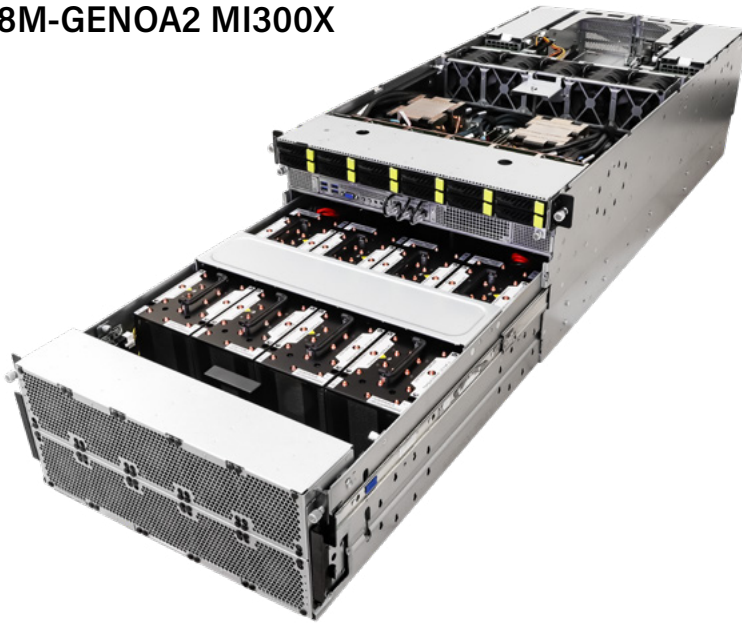
CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
GPU	Supported GPU	AMD Instinct™ MI355X platform with Infinity Fabric™ Links
PCIe Switch	PCIe Switch	PEX89104
	Operation Mode	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage
DIMM	Slot	12+12 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s
		RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	8U Rackmount
	Chassis Dimension	930 x 448 x 353.6 mm (36.6" x 17.6" x 13.9")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button, NMI button
	LEDs	System fault LED, HDD activity LED
I/O		2 RJ45 (1GbE) by Intel® i350, shares with rear I/O
		1 dedicated IPMI, shares with rear I/O
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with front panel
	Others	1 dedicated IPMI, shares with front panel
Expansion Slots		Power button w/ LED, UID button w/ LED, Reset button, NMI button, 1 DB15 (VGA), 2 Type-A (USB3.2 Gen1)
		8 HHHL PCIe5.0 x16
Drive Bay/ Storage	External	4 FHHL PCIe5.0 x16
	Internal	8 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
Power Supply		4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
		1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]
System Cooling		1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]
	Module	6+6, 80-PLUS Titanium, 3200W CRPS
Management	Fan	29 PWM 80x80 mm fans
		4 PWM 40x40 mm fans
Security	BMC	ASPEED AST2600
		TPM (13-pin, SPI) by optional accessory

6U8M-TURIN2 SYN MI350X

6U8M-TURIN2 SYN MI325X

6U8M-TURIN2 SYN MI300X

6U8M-GENOA2 MI300X



Application

- AI Training and Inference
- Intelligent Applications
- High Performance Computing



AMD Instinct™
MI350X

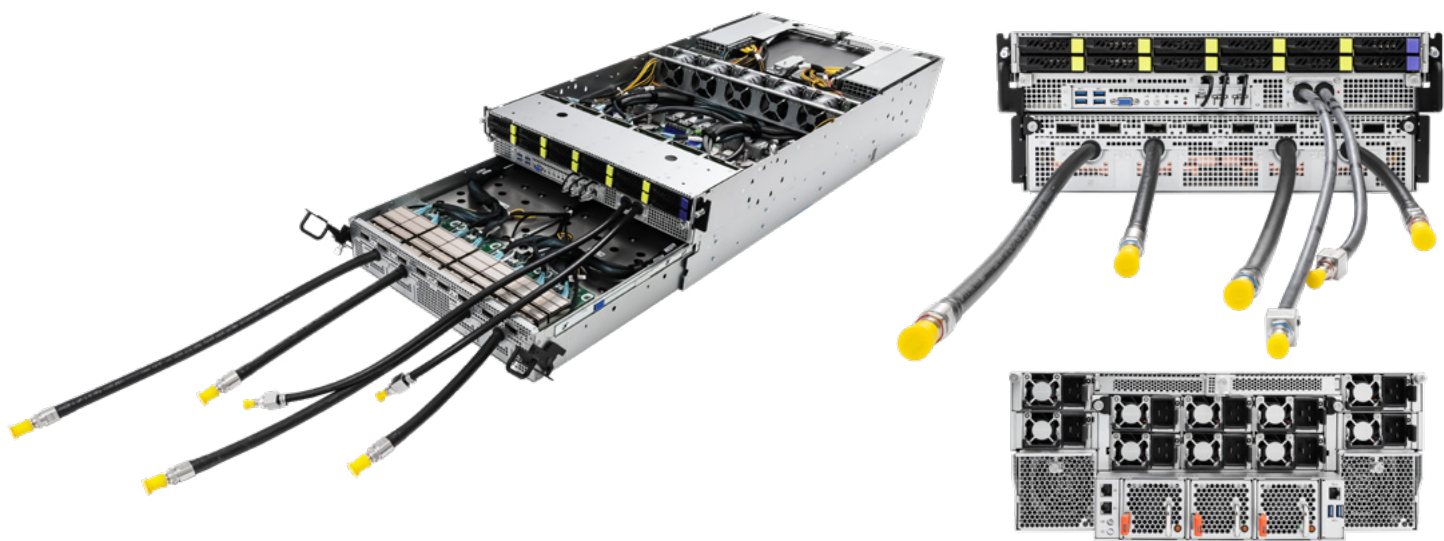


PCI-E 5.0



		6U8M-TURIN2 SYN MI350X	6U8M-TURIN2 SYN MI325X	6U8M-TURIN2 SYN MI300X	6U8M-GENOA2 MI300X
CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors			
	TDP	Up to 500W			Up to 400W
GPU	Supported GPU	AMD Instinct™ MI350X platform with Infinity Fabric™ Links	AMD Instinct™ MI325X 8-GPU with Infinity Fabric™ Links	AMD Instinct™ MI300X 8-GPU with Infinity Fabric™ Links	
PCIe Switch	PCIe Switch	PEX89104			N/A
	Operation Mode	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage			N/A
DIMM	Slot	12+12 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s			
System Physical Status	Form Factor	6U Rackmount			
	Chassis Dimension	930 x 448 x 264.7 mm (36.6" x 17.6" x 10.4")			
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button, NMI button			
	LEDs	System fault LED, HDD activity LED			
	I/O	2 RJ45 (1GbE) by Intel® i350, shares with rear I/O 1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)			
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with front panel 1 dedicated IPMI, shares with front panel			
	Others	Power button w/ LED, UID button w/ LED, Reset button, NMI button, 1 DB15 (VGA), 2 Type-A (USB3.2 Gen1)			
Expasion Slots	Rear	8 HHHL PCIe5.0 x16 1 FHHL PCIe5.0 x16			8 HHHL PCIe5.0 x16 3 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 CPU			
	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	6+2, 80-PLUS Titanium, 3000W CRPS			4+4, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	21 PWM 80x80 mm fans			
Management	BMC	ASPEED AST2600			
Security		TPM (13-pin, SPI) by optional accessory			

4U16X-TURIN2/DLC B300



Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



NVIDIA HGX
B300



PCI-E 5.0



6400

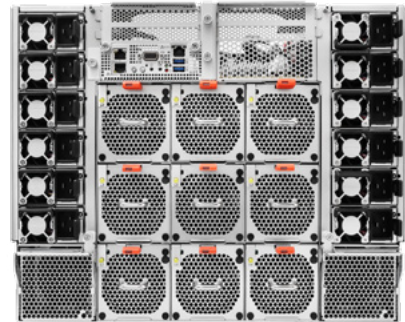
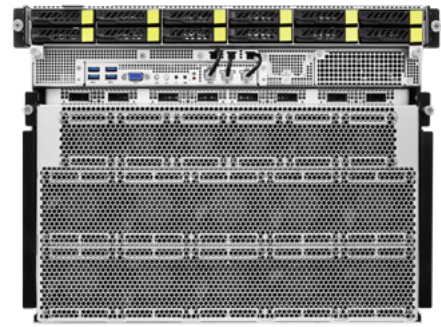


Liquid Cooling



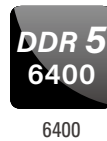
CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
GPU	Supported GPU	NVIDIA HGX™ B300 NVL8
PCIe Switch	PCIe Switch	PEX89104
DIMM	Slot	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor Chassis Dimension	4U Rackmount 900 x 448 x 175 mm (35.4" x 17.6" x 6.9")
Front Panel	Buttons LEDs I/O	Power button w/ LED, Reset button, NMI button, UID button System fault LED, HDD activity LED 2 RJ45 (1GbE) by Intel® i350-AM2, shares with rear I/O 1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
Rear I/O	RJ45 Others	2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel 1 dedicated IPMI, shares with front panel Power button w/ LED, UID button, 2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	2 FHHL PCIe5.0 x16 from PCIe Switch
Drive Bay / Storage	External Internal	10 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe Switch] 1 M-key (PCIe3.0 x2); supports 22110 form factor [CPU0] 1 M-key (PCIe3.0 x4); supports 22110 form factor [CPU1]
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 80x80 mm fans, 8 PWM 60x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI)

8U16X-TURIN2 B300



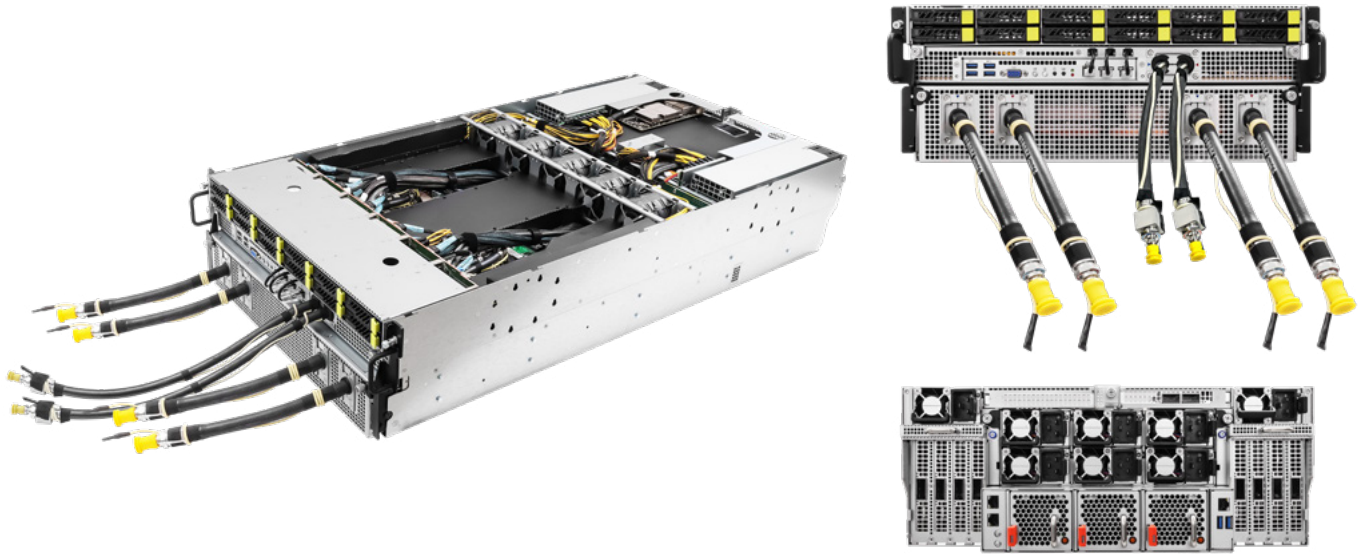
Application

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



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
DIMM	Slot	12+12 DIMM slots (1DPC)
System Physical Status	Form Factor	8U Rackmount
	Chassis Dimension	930 x 448 x 353.6 mm (36.6" x 17.6" x 13.9")
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 (1GbE) by Intel® i350, shared with rear I/O
		1 dedicated IPMI, shares with rear I/O
Rear I/O	RJ45	4 Type-A (USB3.2 Gen1)
		1 DB15 (VGA)
	Others	2 RJ45 (1GbE) by Intel® i350, shares with front panel
		1 dedicated IPMI, shares with front panel
Expansion Slots	Rear	1 power button w/LED, 1 reset button, 1 NMI button, 1 HDD activity LED, 1 System fault LED
Drive Bay / Storage	External	2 Type-A (USB3.2 Gen1)
Networking	OSFP	1 DB15 (VGA)
		4 FHHL PCIe5.0 x16 [PCIe switch]
Power Supply	Module	12 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays [PCIe switch]
System Cooling	Fan	M2_1 (PCIe3.0 x2 or SATA 6Gb/s); supports 22110/2280 form factor [CPU0]
Management	BMC	M2_2 (PCIe3.0 x4 or SATA 6Gb/s); supports 22110/2280 form factor [CPU1]
Security		8 OSFP (800Gb/s) via NVIDIA® ConnectX®-8 SuperNIC
		6+6, 80-PLUS Titanium, 3000W CRPS
		26 PWM 80x80 mm fans, 6 PWM 60x56 mm fans
		ASPEED AST2600
		TPM (13-pin, SPI) by optional accessory

4U8X-TURIN2/DLC SYN B200



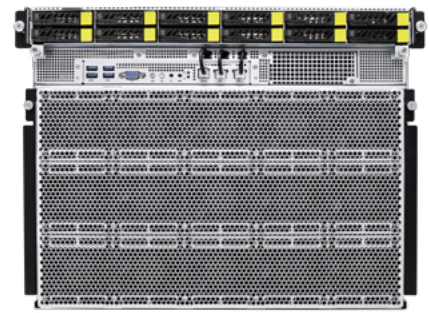
Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



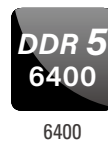
CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
GPU	Supported GPU	Supports eight NVIDIA B200 GPUs
PCIe Switch	PCIe Switch	PEX89104
	Operation Mode	Synthetic mode for optimized performance of GPU-to-CPU, GPUDirect RDMA NIC, and GPUDirect Storage
DIMM	Slot	12+12 DIMM (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	900 x 448 x 175 mm (35.4" x 17.6" x 6.9")
Front Panel	Buttons	Power button w/ LED, Reset button, NMI button, UID button
	LEDs	System fault LED, HDD activity LED
Rear I/O	I/O	2 RJ45 (1GbE) by Intel® i350, shares with rear I/O 1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with front panel 1 dedicated IPMI, shares with front panel
Expansion Slots	Others	UID button, 1 DB15 (VGA), 2 Type-A (USB3.2 Gen1)
	Rear	8 FHHL PCIe5.0 x16 from PCIe Switch 1 FHHL PCIe5.0 x16 from CPU
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 CPU
	Internal	1 M-key (PCIe3.0 x2 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	4+4, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	10 PWM 60x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

8U8X-TURIN2 SYN B200



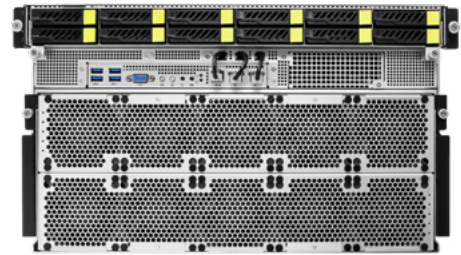
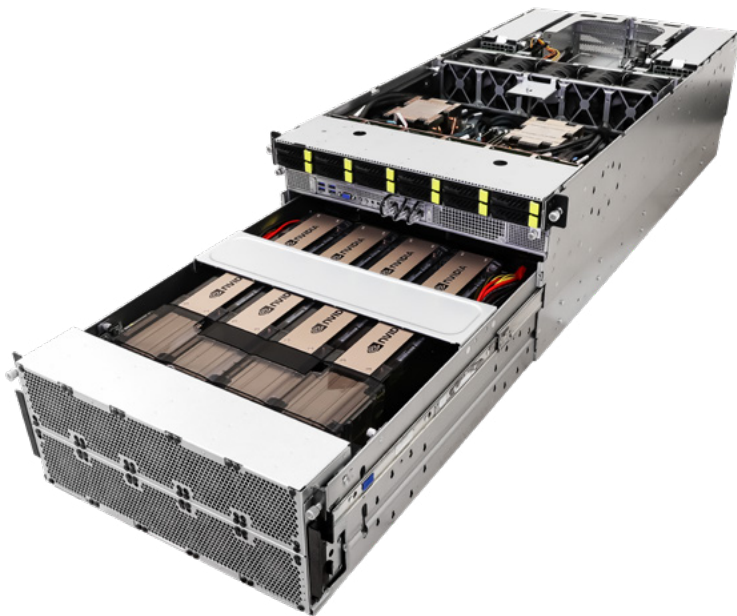
Application

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



CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
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	12+12 DIMM (1DPC)
System Physical Status	Form Factor	8U Rackmount
	Chassis Dimension	930 x 448 x 353.6 mm (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 I/O 1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)
Rear I/O	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 1 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 CPU
	Internal	1 M-key (PCIe3.0 x2 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	6+6, 80-PLUS Titanium, 3000W CRPS
System Cooling	Fan	29 PWM 80x80 mm fans, 4 PWM 40x40 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

6U8X-TURIN2 SYN H200



Application

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



NVIDIA HGX
B200



PCI-E 5.0

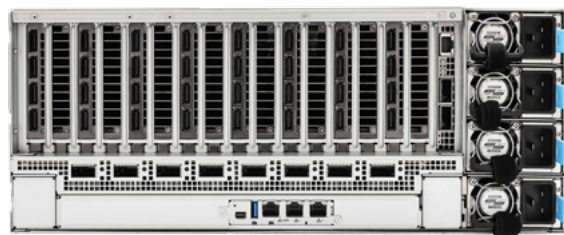


6400



CPU	Socket	1+1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
GPU	Supported GPU	Supports eight NVIDIA H200 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	12+12 DDR5 (1DPC)
System Physical Status	Form Factor	6U Rackmount
	Chassis Dimension	930 x 448 x 264.7 mm (36.6" x 17.6" x 10.4")
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
		1 dedicated IPMI
Rear I/O	RJ45	4 Type-A (USB3.2 Gen1)
		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	Rear	1 DB15 (VGA), 1 UID button w/ LED
		8 HHHL PCIe5.0 x16
Drive Bay/Storage	External	1 FHHL PCIe5.0 x16
		8 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from PCIe Switch
	Internal	4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays from CPU
		1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0]
Power Supply	Module	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]
System Cooling	Fan	4+4, 80-PLUS Titanium, 3000W CRPS
Management	BMC	21 PWM 80x80 mm fans
Security		ASPEED AST2600
		TPM (13-pin, SPI) by optional accessory

4UXGM-TURIN2 CX8



Application

- High Performance Computing
- Data Analytics
- AI Inference



GPGPU



PCI-E 5.0

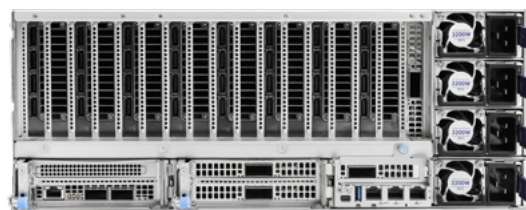


6400



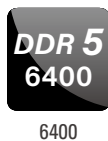
CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
DIMM	Slot	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s
		RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	4U Rackmount, NVIDIA MGX™ 4U Compliant
	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 I/O	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (1GbE) by Intel® i350
	Others	1 dedicated IPMI
Expansion Slots		UID button, Power button, 1 System fault LED
		1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA)
	Rear	8 FHFL dual-slot PCIe5.0 x16
Drive Bay / Storage		1 FHHL PCIe5.0 x16
	External	16 hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width
	Internal	1 M-key (PCIe3.0 x4); supports 2280 form factor [CPU0]
Networking	OSFP	1 M-key (PCIe3.0 x4); supports 2280 form factor [CPU1]
Power Supply	Module	8 QSFP112 (400Gb/s) ports via NVIDIA® ConnectX®-8
System Cooling	Fan	3+1, 80-PLUS Titanium, 3200W CRPS
Management	BMC	10 hot-swap 80x80 mm fans
Security		ASPEED AST2600
		TPM (13-pin, SPI)

4UXGM-TURIN2



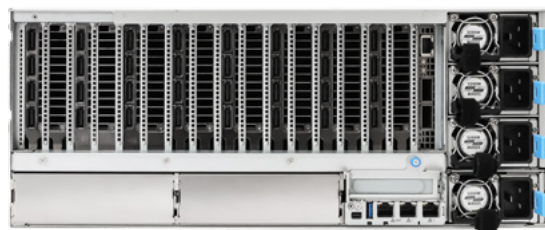
Application

- High Performance Computing
- Data Analytics
- AI Inference



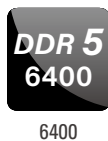
CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
DIMM	Slot	12+12 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	4U Rackmount, NVIDIA MGX™ 4U Compliant
	Chassis Dimension	800 x 438 x 176.5 mm (31.5" 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 I/O	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
		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 (PCIe3.0 x4), supports 2280 form factor [CPU0]
		1 M-key (PCIe3.0 x4), supports 2280 form facotr [CPU1]
Power Supply	Module	3+1, 80-PLUS Titanium, 3200W CRPS
System Cooling	Fan	10 hot-swap 80x80 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

4UXGM-TURIN2 DIRECT



Application

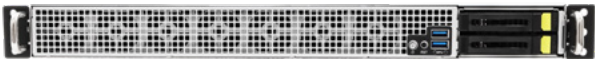
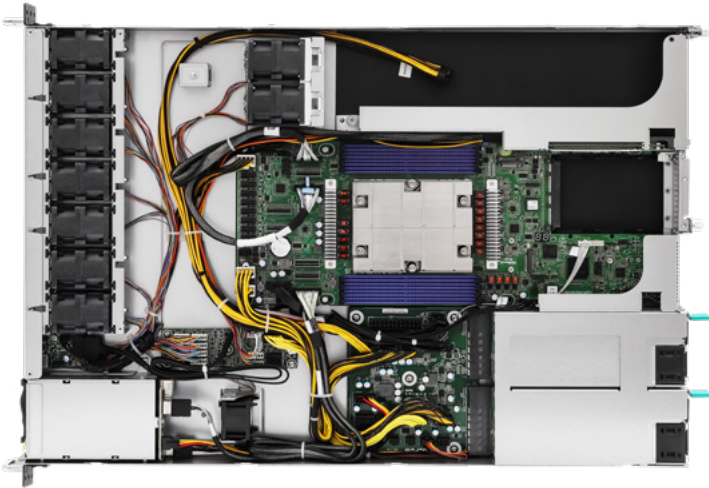
- High Performance Computing
- Data Analytics
- AI Inference



CPU	Socket	1+1 Socket SP5 (LGA 6096), supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 500W
GPU	Supported GPU	AMD Instinct™ MI350P NVIDIA RTX PRO™ 6000 Blackwell Server Edition NVIDIA RTX PRO™ 4500 Blackwell Server Edition
	Slot	12+12 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	4U Rackmount, NVIDIA MGX™ 4U Compliant
	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	2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
Expansion Slots	Others	1 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA)
	Rear	8 FHFL dual-slot PCIe5.0 x16 1 FHFL PCIe5.0 x16
Drive Bay/ Storage	External	4 hot-swap E1.S (PCIe5.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU1]
Power Supply	Module	3+1, 80-PLUS Titanium, 3200W CRPS
System Cooling	Fan	10 hot-swap 80x80 mm fans
Management		ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U1G2E-TURIN

1U1G4E1S-TURIN



Application

- AI Real-time Inference
- Large Language Models
- Mixture-of-Experts Models



GPGPU



PCI-E 5.0



6400



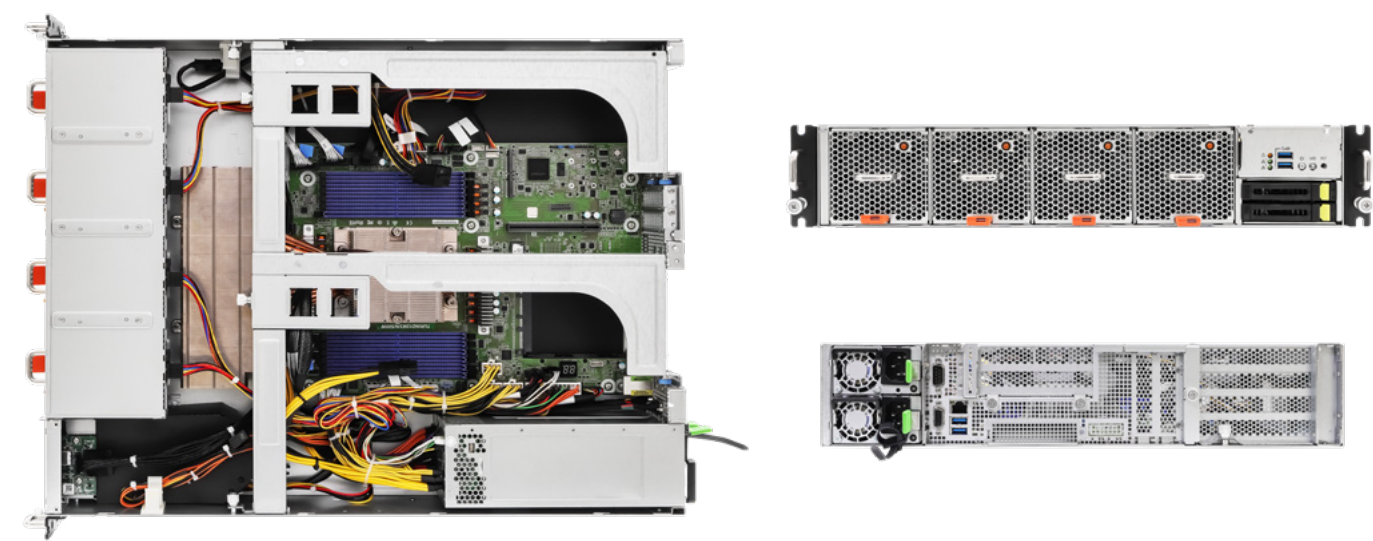
OCP NIC 3.0



		1U1G2E-TURIN	1U1G4E1S-TURIN
CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors	
	TDP	Up to 400W	
DIMM	Slot	8 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s	
	Form Factor	1U Rackmount	
System Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")	
	Buttons	Power button w/ LED, Reset button	
Front Panel	LEDs	System fault LED, UID LED, HDD activity LED	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear I/O	RJ45	1 dedicated IPMI	
	Others	1 Mini DisplayPort (VGA), 1 UID button w/ LED, 2 Type-A (USB3.2 Gen1)	
Expansion Slots	Rear	1 FHFL dual-slot PCIe5.0 x16 ^{Note1} 1 HHHL single-slot PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)	
	Drive Bay / Storage	2 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays	4 hot-swap E1.S (PCIe5.0 x4) drive bays
Power Supply	Module	2 M-key (PCIe5.0 x4 or SATA 6Gb/s); support 22110/2280 form factor	
	System Cooling	1+1, 80-PLUS Titanium, 2000W CRPS	
Management Security	Fan	9 dual-rotor 40x56 mm fans 1 single-rotor 40x28 mm fan	
	BMC	ASPEED AST2600	
		TPM (13-pin, SPI)	

2U2G-TURIN

2U2G-TURIN/HPR



Application

- AI Inference
- Virtualization
- Visual Computing



GPGPU



PCI-E 5.0



6400



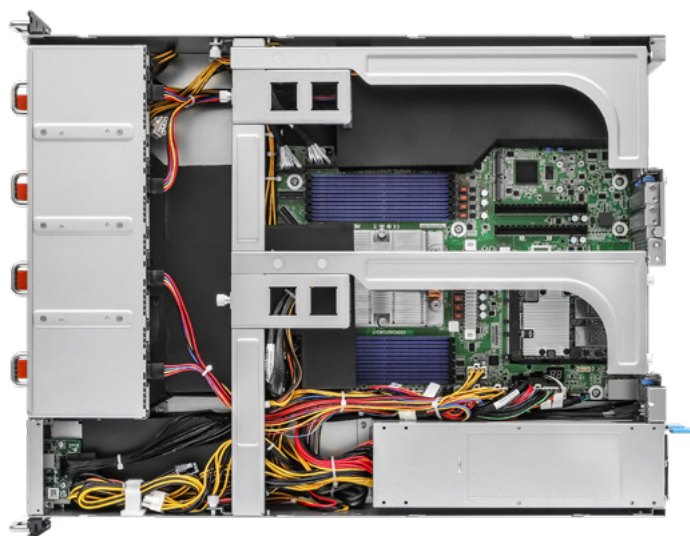
OCP NIC 3.0



		2U2G-TURIN	2U2G-TURIN/HPR
CPU	Socket	1 Socket SP5 (LGA 6096P); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors	
	TDP	Up to 500W	
DIMM	Slot	12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s	
	Form Factor	2U Rackmount	
System Physical Status	Chassis Dimension	580 x 438 x 87 mm (22.8" x 17.2" x 3.4")	
	Buttons	Power button w/ LED, UID button w/ LED, System reset button	
Front Panel	LEDs	HDD activity LED, System event LED	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	1 dedicated IPMI	
	Others	1 DB15 (VGA), 1 DB9 (COM), 2 Type-A (USB3.2 Gen1)	
Expansion Slots	Rear	2 FHFL dual-slot PCIe5.0 x16 ^{Note1}	
		1 HHHH 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 2-port NVMe passive backplane	
	Internal	2 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s); support 22110/2280/2260 form factor	
Power Supply	Module	1+1, 80-PLUS Titanium, 2700W CRPS	1+1, 80-PLUS Titanium, 2000W CRPS
System Cooling		4 PWM hot-swap 80x56 mm fans 1 PWM fixed 40x28 mm fan	
Management	BMC	ASPEED AST2600	
Security		TPM (13-pin, SPI)	

Note1: Supports GPU cards of up to 600W (conditions apply).

2U2G-GENOA



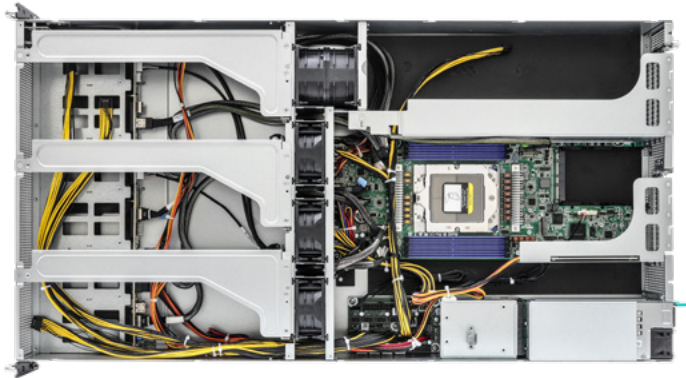
Application

- AI Inference
- Virtualization
- Visual Computing



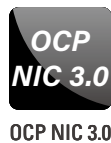
CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM	Slot	12 DDR5 (1DPC)
System Physical Status	Form Factor Chassis Dimension	2U Rackmount 580 x 438 x 87 mm (22.8" x 17.2" x 3.4")
Front Panel	Buttons LEDs I/O	Power button w/ LED, ID button w/ LED, System reset button HDD activity LED, LAN 1/2 LED, System event LED 2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45 Others	1 dedicated IPMI 2 Type-A (USB3.2 Gen1), 1 UID button, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	2 FHFL dual-slot PCIe5.0 x16 2 HHHL single-slot PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External Internal	2 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays 2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-PLUS Titanium, 2000W CRPS
System Cooling	Fan	Front: 4 PWM hot-swap 80x56 mm fans, Middle: 1 PWM fixed 40x28 mm fan
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

2U4G-GENOA/M3



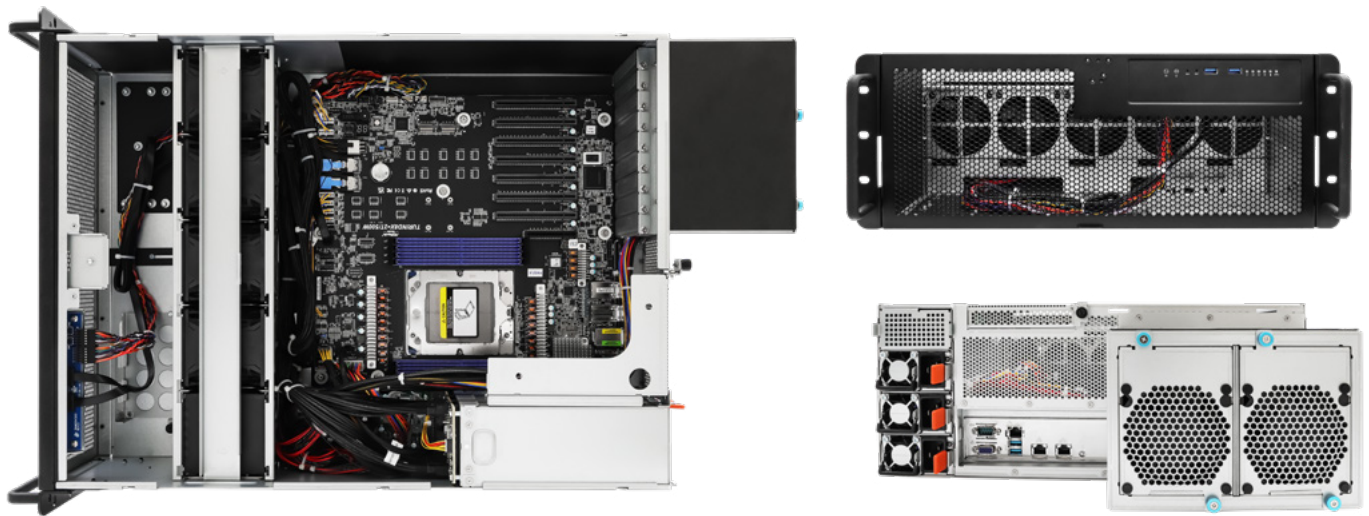
Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 400W
DIMM	Slot	8 DDR5 (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 button, UID button
	LEDs	System fault LED, UID LED, Power LED
Rear I/O	I/O	2 Type-A (USB2.0)
	RJ45	1 dedicated IPMI
Expansion Slots	USB	2 Type-A (USB3.2 Gen1)
	Others	1 mini-DisplayPort (VGA), 1 UID button w/ LED
Drive Bay/Storage	Front	3 FHFL dual-slot PCIe5.0 x16
	Rear	1 FHFL dual-slot PCIe5.0 x16 1 OCP NIC 3.0 PCIe5.0 x16 1 FHFL PCIe5.0 x16 1 FHFL PCIe5.0 x8
Power Supply	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	2 hot-swap 2.5" SATA drive bays
System Cooling	Module	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280 form factor
	Fan	1+1, 80-PLUS Platinum, 2700W CRPS
Management	BMC	1 PWM hot-swap 80x80 mm fans
		3 PWM hot-swap 80x38 mm fans
Security	BMC	ASPEED AST2600
		TPM (13-pin, SPI) by optional accessory

4U4G-TURIN/HPR



Application

- Data Processing
- Deep Learning
- Mainstream Workstation



10Gbase-T



PCI-E 5.0



GPGPU

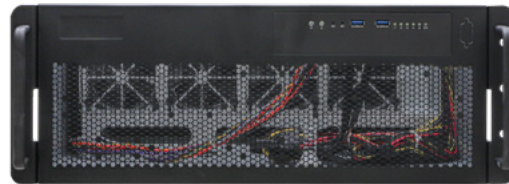
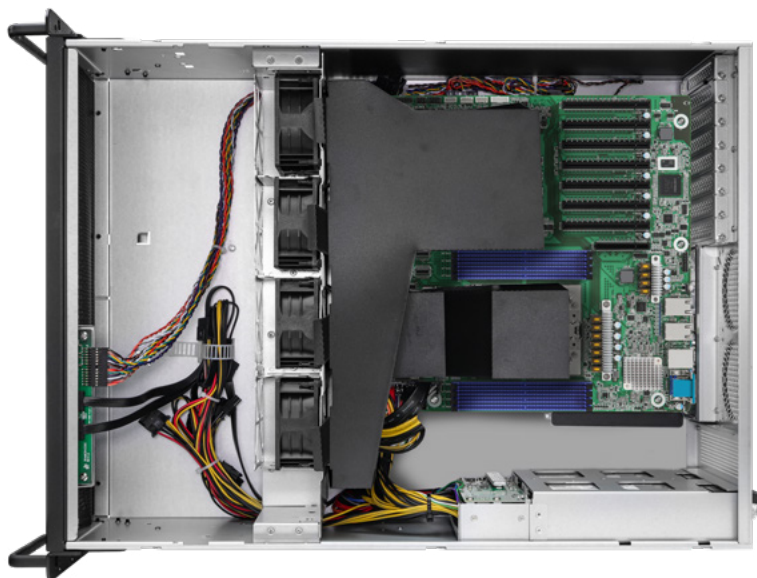


6400



CPU	Socket	1 Socket SP5 (LGA 6096P); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 400W
DIMM	Slot	8 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s
	Slot	RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	4U Rackmount
	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 I/O	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
Expansion Slots	Others	1 dedicated IPMI
	Rear	2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA), 1 DB9 (COM)
Drive Bay / Storage	Internal	4 dual-slot or 7 single-slot FHFL PCIe5.0 x16
	Internal	1 FHFL single-slot PCIe5.0 x8
Power Supply	Module	2+1, 80-PLUS Titanium, 2700W CRPS
System Cooling	Fan	Middle: 4 PWM fixed 80x80 mm fans
	Fan	Rear: 2 PWM fixed 80x80 mm GPU fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI)

4U4G-GENOAX



Application

- Data Processing
- Deep Learning
- Mainstream Workstation



10Gbase-T



PCI-E 5.0



GPGPU

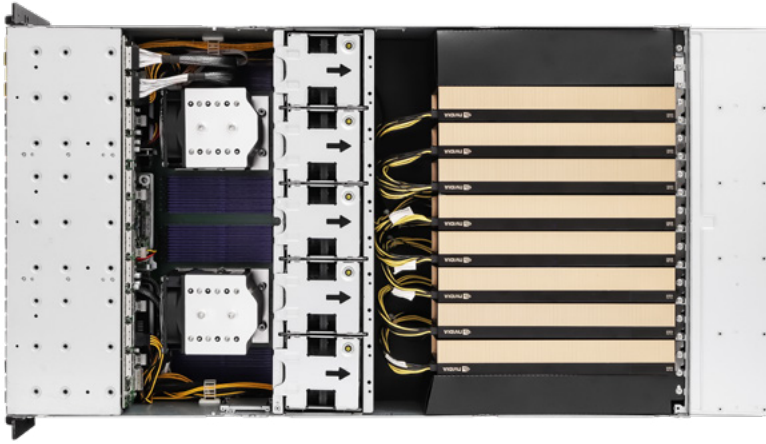


CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 320W
DIMM	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	596 x 430.4 x 174.8 mm (23.5" x 16.9" x 6.9")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset button, NMI button
	LEDs	LAN activity LED, HDD activity LED, System event LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1), 1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	4 FHFL dual-slot PCIe5.0 x16 or 7 FHFL single-slot PCIe5.0 x16
		1 FHFL PCIe5.0 x8
Drive Bay/Storage	Internal	1 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor
		1 M-key (PCIe5.0 x4), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 2100W CRPS
System Cooling	Fan	2 PWM fixed 80x56 mm fans
		2 PWM fixed 80x38 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

4U8G-TURIN2

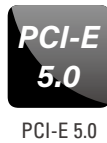
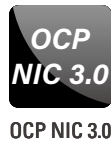
4U8G-TURIN2/RF+

4U8G-TURIN2/SUPER_4L



Application

- Big Data Analytics
- Machine Learning
- AI Training and Inference



		4U8G-TURIN2	4U8G-TURIN2/RF+	4U8G-TURIN2/SUPER_4L
CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors		
	TDP	Up to 500W		
DIMM	Slot	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s		
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 I/O 1 dedicated IPMI, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)		
Rear I/O	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 OCP NIC 3.0 (PCIe5.0 x8)		N/A
	Rear	8 FHFL dual-slot PCIe5.0 x16		N/A
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 (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 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	BMC	ASPEED AST2600		
Security		TPM (13-pin, SPI)		

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

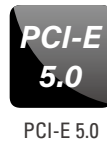
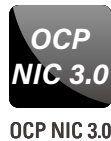
4U10G-TURIN2

4U10G-TURIN2/RF+



Application

- Big Data Analytics
- Machine Learning
- AI Training and Inference



		4U10G-TURIN2	4U10G-TURIN2/RF+
CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors	
	TDP	Up to 500W	
DIMM	Slot	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s	
	Form Factor	4U Rackmount	
System 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	
Rear I/O	I/O	2 RJ45 (1GbE) by Intel® i350, shares with rear I/O 4 Type-A (USB3.2 Gen1) 1 dedicated IPMI, shares with rear I/O 1 DB15 (VGA)	
	RJ45	2 RJ45 (1GbE) by Intel® i350, shares with front panel 1 dedicated IPMI, shares with front panel	
Expansion Slots	Others	2 Type-A (USB3.2 Gen1), UID button, 1 DB15 (VGA)	
	Front	2 FHFL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)	
Drive Bay / Storage	Rear	10 FHFL dual-slot PCIe5.0 x16 (with PEX89104 PCIe Switch) 1 FHFL single-slot PCIe5.0 x16 (CPU direct link)	
	External	16 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays or 24 hot-swap 2.5" SATA/SAS ^{Note1} drive bays	
Power Supply	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]	
	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	BMC	ASPEED AST2600	
Security		TPM (13-pin, SPI)	

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

4U8G-GENOA2

4U10G-GENOA2



OCP NIC 3.0



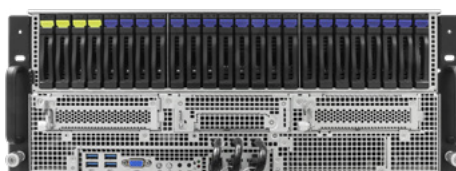
PCI-E 5.0



GPGPU

Application

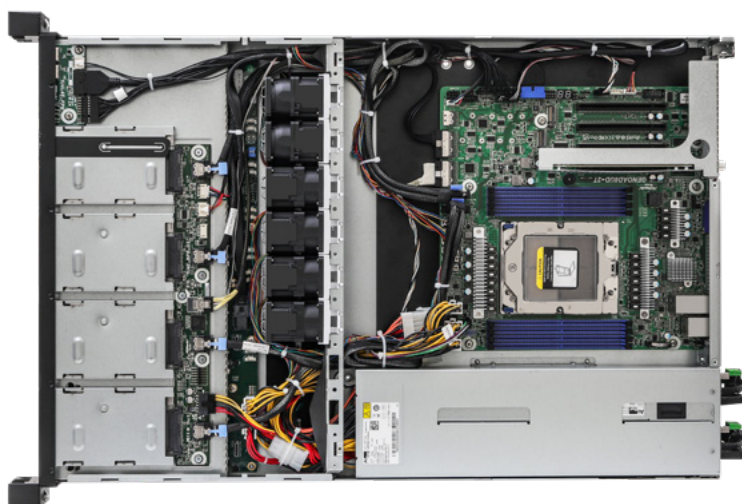
- Big Data Analytics
- Machine Learning
- AI Training and Inference



		4U8G-GENOA2	4U10G-GENOA2
CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors	
DIMM	Slot	12+12 DDR5 (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 I/O 4 Type-A (USB3.2 Gen1) 1 DB15 (VGA)	
Rear I/O	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 FHFL PCIe5.0 x8 1 OCP NIC 3.0 PCIe5.0 x8	2 FHFL 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	16 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	BMC	ASPEED 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

1U4L4E-GENOA/2T



Application

- Hybrid-storage Server
- Cloud Computing
- Enterprise Server



10Gbase-T



Storage



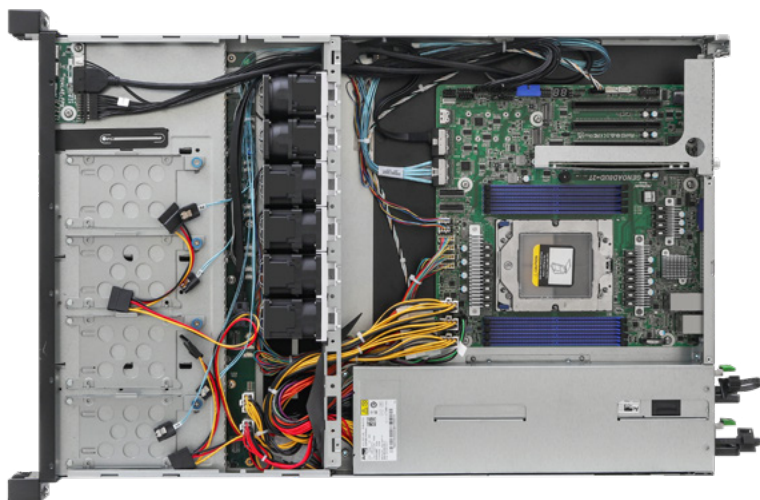
PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System reset button
	LEDs	HDD activity LED, LAN 1/2 LED, System event LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
Drive Bay/Storage	External	4 hot-swap 2.5" NVMe/SATA/SAS ^{Note1} drive bays 4 hot-swap 3.5" SATA drive bays
	Internal	2 M-key (PCIe5.0 x4); support 2280/2260/2242/2230 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim PSU
System Cooling	Fan	6 PWM easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

1U4L-GENOA/2T



Application

- Hybrid-storage Server
- Cloud Computing
- Enterprise Server



10Gbase-T



Storage



PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 (1DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System reset button
	LEDs	HDD activity LED, LAN 1/2 LED, System event LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
Drive Bay/Storage	External	4 hot-swap 3.5" SATA drive bays
	Internal	4 fixed 2.5" SATA drive bays
		2 M-key (PCIe5.0 x4); support 2280/2260/2242/2230 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim PSU
System Cooling	Fan	6 PWM easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U8S4E-GENOA/2T



Application

- Hybrid-storage Server
- Enterprise Server



10Gbase-T



Storage



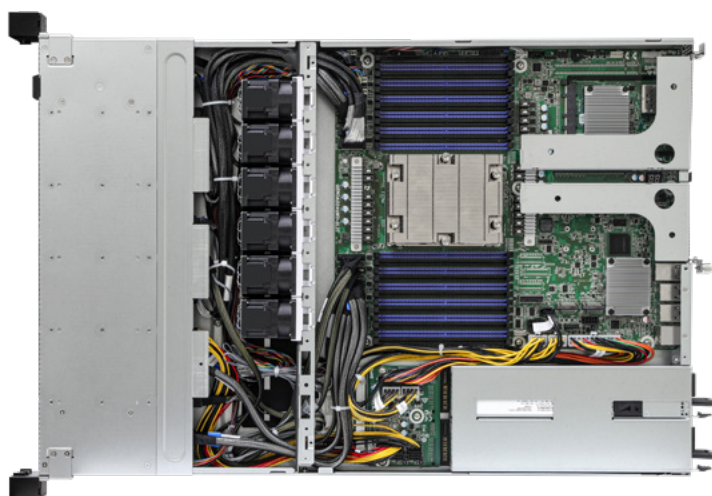
PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset, NMI button
	LEDs	HDD activity LED, LAN 1/2 LED, System event LED
	I/O	1 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
Drive Bay/Storage	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays 8 hot-swap 2.5" SATA/SAS drive bays ^{Note1}
	Internal	2 M-key (PCIe5.0 x4); support 2280/2260/2242/2230 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim PSU
System Cooling	Fan	6 PWM easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

1U12E-GENOA/2L2T



Application

- Data Center Server
- All-flash Storage Server
- SMB and Database Processing & Storage



10Gbase-T



Storage



OCP NIC 3.0



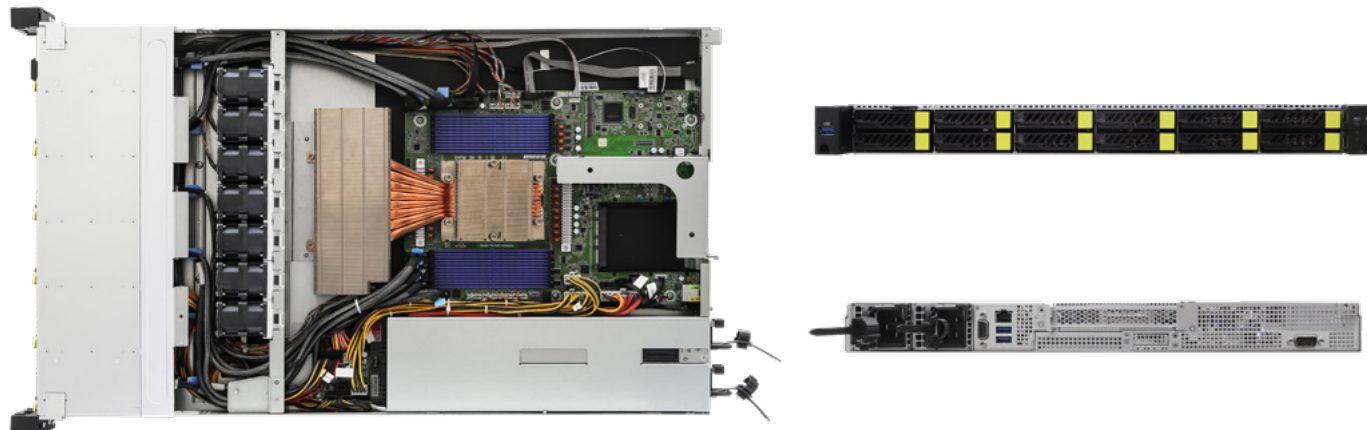
PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	24 DDR5 (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button, Reset button, UID button
	LEDs	Power LED, UID LED, System fail LED, LAN1/LAN2 LED
	I/O	1 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	2 FHHL PCIe5.0 x16
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External	12 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays
	Internal	2 M-key (PCIe5.0 x4), support 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-Plus Platinum, 1000W Slim PSU
System Cooling	Fan	6 PWM hot-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

1U12E-TURIN/EVAC



Application

- Data Center Server
- All-flash Storage Server
- SMB and Database Processing & Storage



PCI-E 5.0



Storage



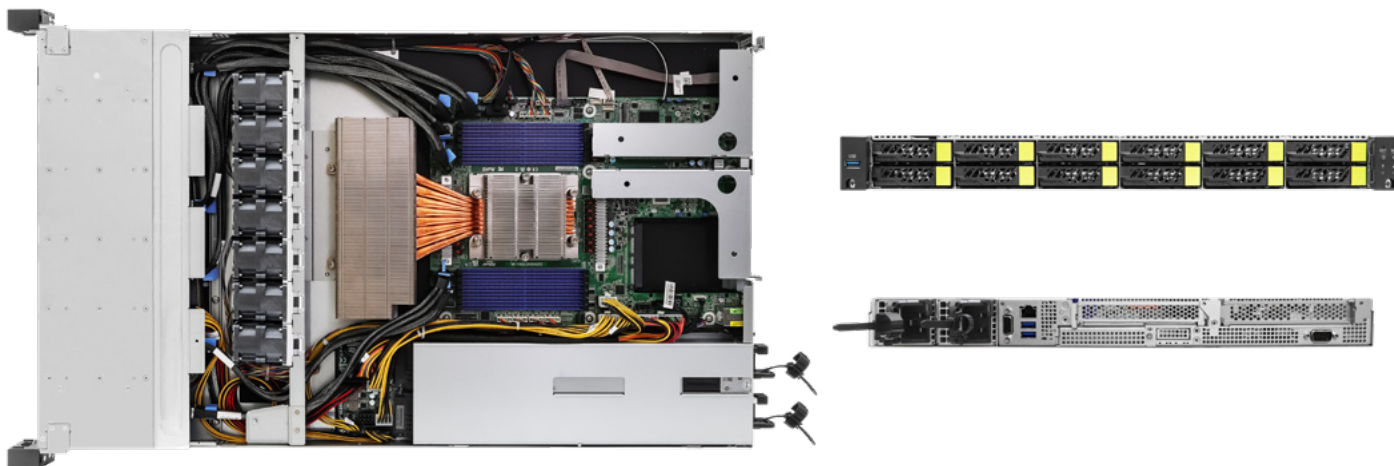
OCP NIC 3.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	24 DDR5 (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button, Reset button, UID button
	LEDs	Power LED, UID LED, System fail LED, LAN1/LAN2 LED
	I/O	1 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	2 FHHL PCIe5.0 x16
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External	12 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays
	Internal	2 M-key (PCIe5.0 x4), support 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-Plus Platinum, 1000W Slim PSU
System Cooling	Fan	6 PWM hot-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

1U12E-GENOA/EVAC



Application

- Data Center Server
- All-flash Storage Server
- SMB and Database Processing & Storage



PCI-E 5.0



Storage

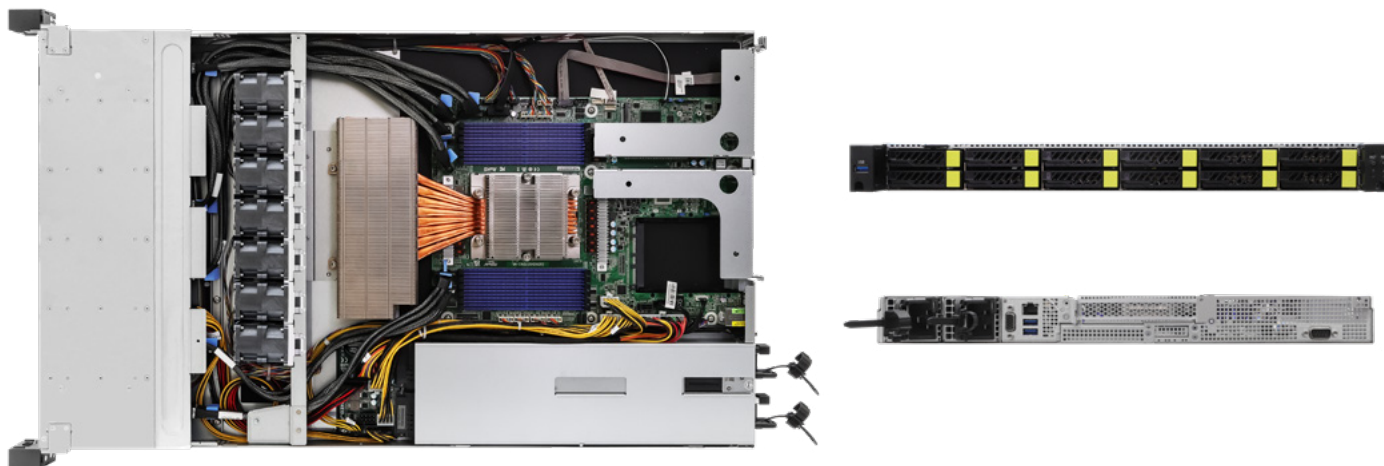


OCP NIC 3.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 360W
DIMM	Slot	12 DDR5 (1DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	776.5 x 438 x 43.5 mm (30.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button, Reset button, UID button
	LEDs	Power LED, LAN 1/2 LED, System event LED, ID LED
	I/O	1 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	2 FHHL PCIe5.0 x16
		1 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 or SATA 6Gb/s), support 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-Plus Platinum, 1600W Slim RPSU
System Cooling	Fan	7 PWM hot-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U12E3S-TURIN/EVAC



Application

- Data Center Server
- All-flash Storage Server
- SMB and Database Processing & Storage



PCI-E 5.0



Storage

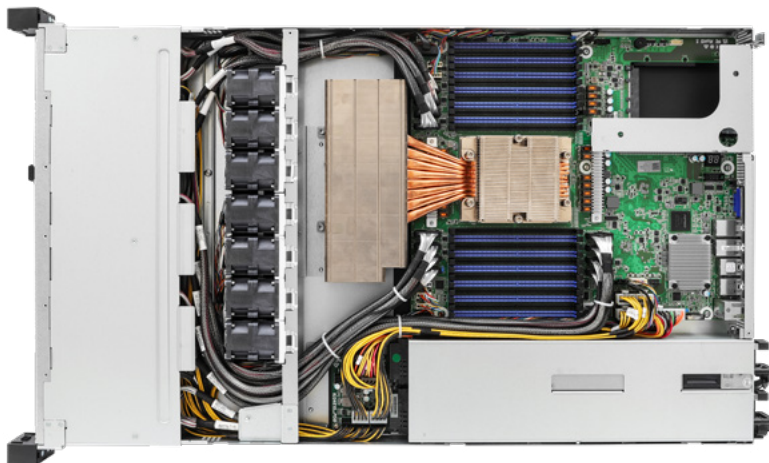


OCP NIC 3.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM	Slot	12 DDR5 (1DPC)
System Physical Status	Form Factor Chassis Dimension	1U Rackmount 820 x 438 x 43.5 mm (32.3" x 17.2" x 1.7")
Front Panel	I/O	1 Type-A (USB3.2 Gen1), 1 DB9 (COM)
Rear I/O	RJ45 USB Others	1 dedicated IPMI 2 Type-A (USB3.2 Gen1) 1 DB15 (VGA), 1 UID button
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External Internal	12 hot-swap E3.S (PCIe5.0 x4) drive bays 2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-Plus Platinum, 1600W CRPS
System Cooling	Fan	8 PWM 40x56 mm dual-rotor fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U24E1S-GENOA/2L2T



Application

- Data Center Server
- All-flash Storage Server
- SMB and Database Processing & Storage



10Gbase-T



Storage



OCP NIC 3.0

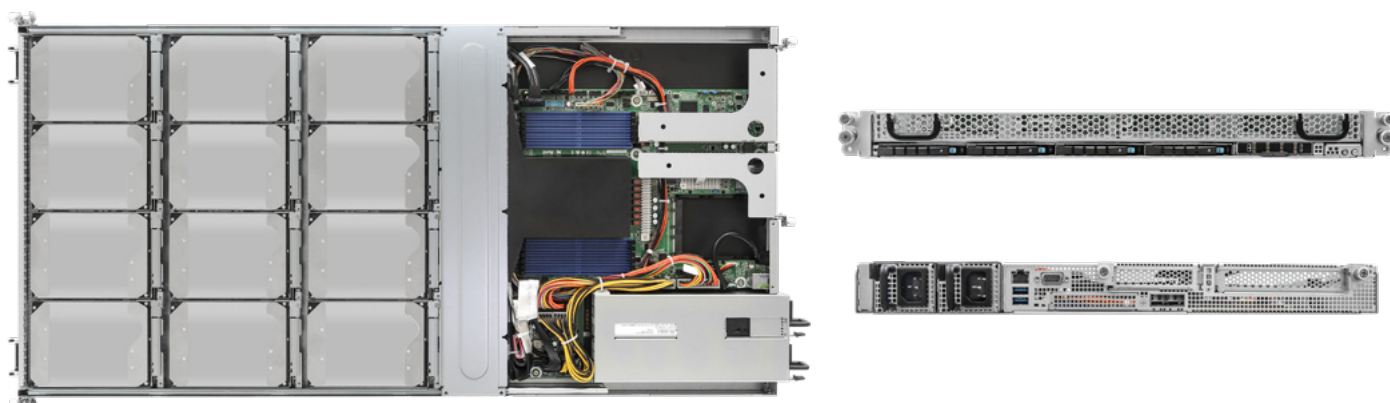


PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096) supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	24 DIMM (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	776.5 x 438 x 43.5 mm (30.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, ID button W/LED, System reset button, NMI button
	LEDs	HDD activity LED, LAN1/2 LED, System fault LED
Rear I/O	RJ45	Broadcom BCM57416: 2 RJ45 (10GbE) Intel® i210: 2 RJ45 (1GbE) 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External	24 hot-swap E1.S (PCIe5.0 x4) drive bays, supports 9.5mm/15mm width
Power Supply	Module	1+1 ,80-PLUS Platinum, 1600W RPSU
System Cooling	Fan	7 PWM hot-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

1U12L4E-GENOA/2Q



Application

- Cloud Datacenter Storage
- Software-defined Storage



SFP28



Storage



OCP NIC 3.0

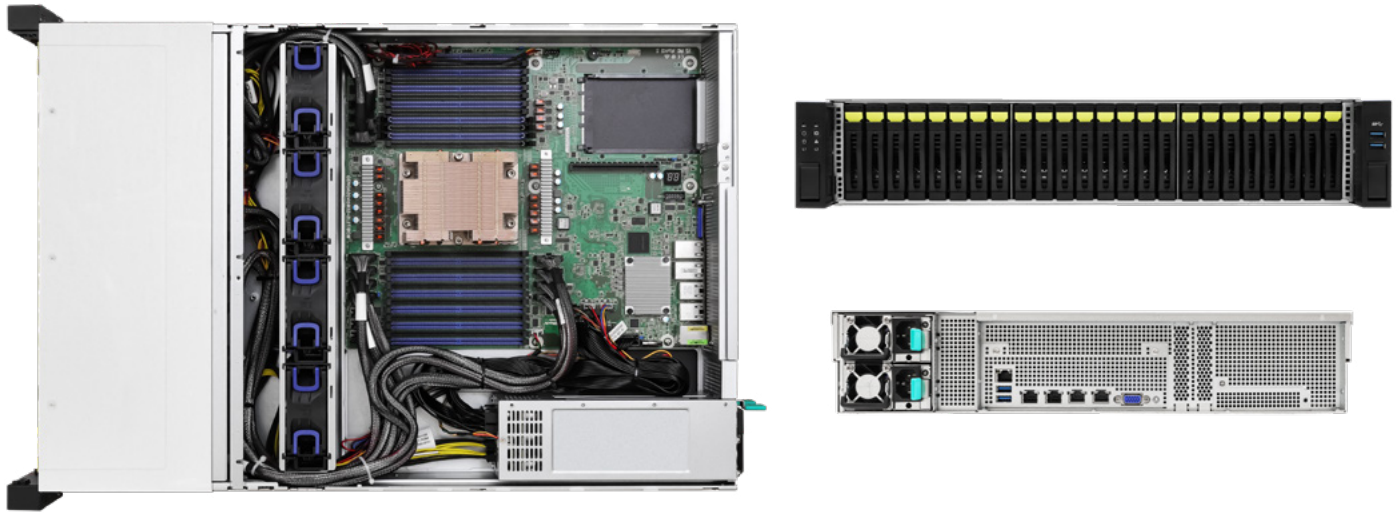


PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	12 DDR5 (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	955 x 438 x 43.5 mm (37.6" x 17.2" x 17.1")
Front Panel	Buttons	Power Switch button, ID Switch button, System reset button
	LEDs	Power status LED, UID LED, HDD activity LED, System fault LED
	I/O	N/A
Rear I/O	LAN	2 SFP28 (25GbE) by Broadcom BCM57414 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 UID button
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
		1 HHHL PCIe5.0 x16 via RB1UX16L_G5
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External	4 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
	Internal	12 hot-swap 3.5" SATA drive bays 2 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280/2260 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 1000W Slim RPSU
System Cooling	Fan	6 PWM hot-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

2U24E-GENOA



Application

- All-flash Storage Server
- Data Processing
- High-end Enterprise Server



10Gbase-T



Storage

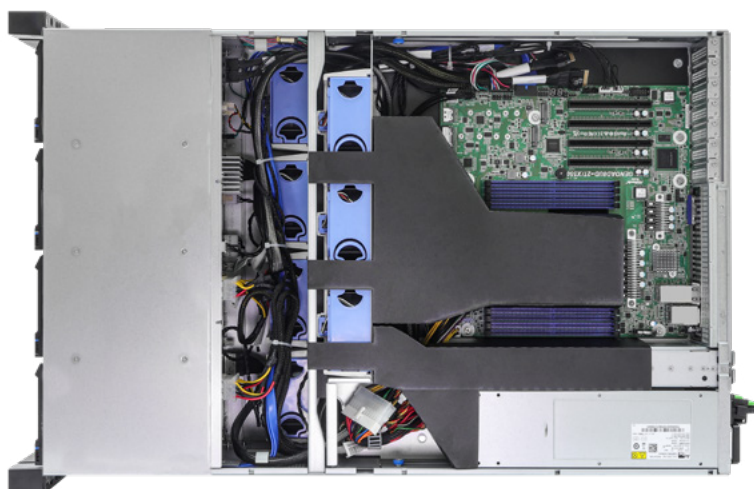


PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	24 DDR5 288-pin (2DPC); supports RDIMM up to 128GB each, max. 5200MT/s (1DPC) / 4400MT/s (2DPC) RDIMM-3DS up to 256GB each, max. 5200MT/s (1DPC) / 4400MT/s (2DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	660 x 438 x 87.5 mm (26" x 17.2" x 3.4")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, Reset button, NMI button
	LEDs	System fault LED, LAN1 / LAN2 LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	UID button w/ LED, 1 DB15 (VGA)
Expansion Slots	Rear	1 HHHL PCIe5.0 x16
Drive Bay/Storage	External	24 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
Power Supply	Module	1+1, 80-PLUS Titanium, 1600W CRPS
System Cooling	Fan	4 PWM 80x38 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI)

4U36L6E-GENOA/2T



Application

- Corporate Database
- Enterprise Server



10Gbase-T



Storage



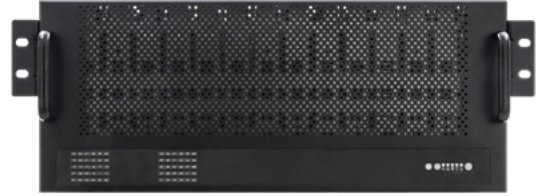
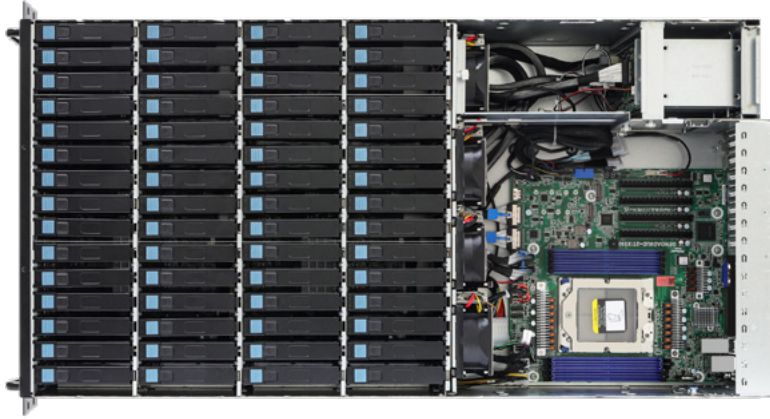
PCI-E 5.0



CPU	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	699 x 432 x 176 mm (27.52" x 17.01" x 6.93")
Front Panel	Buttons	Power button , System reset button
	LEDs	Power Status LED, LAN1/LAN2 activity LED, System fail LED, HDD status LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	4 HHHL PCIe5.0 x16
Drive Bay/Storage	External	Front: 20 hot-swap 3.5" SATA/SAS drive bays ^{Note1} 4 hot-swap 3.5" SATA/SAS drive bays ^{Note1} or 4 hot-swap 2.5" NVMe (PCIe3.0 x4) drive bays Rear: 12 hot-swap 3.5" SATA/SAS drive bays ^{Note1} 2 hot-swap 2.5" NVMe (PCIe3.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x4); support 2280/2260/2242/2230 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 1200W PSU
System Cooling	Fan	7 hot-swap 80x38 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: Additional RAID/HBA card required to support the 36 Hot-swap 3.5" SATA/SAS drive bays

4U60L8E-GENOA



Application

- Hyper-scale Cloud Datacenter Storage
- Software-defined Storage Applications
- Virtual Tape Library



10Gbase-T



Storage



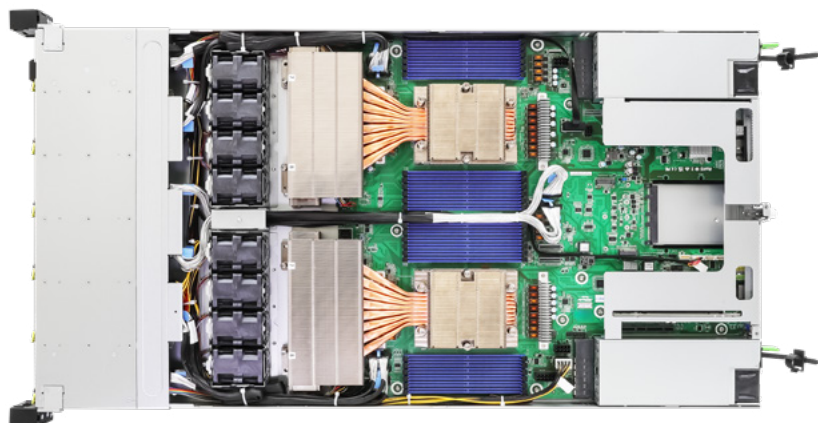
PCI-E 5.0



CPU (per node)	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM (per node)	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor Chassis Dimension	2U Rackmount 750 X 438 X 86.6 mm (29.5" x 17.2" x 3.4")
Front Panel (per node)	Buttons LEDs	Power button, Reset button System fail LED, UID LED, Power LED
Rear I/O (per node)	RJ45 USB Others	2 Type-A (USB3.2 Gen1) 1 dedicated IPMI 2 Type-A (USB3.2 Gen1)
Expansion Slots (per node)	Rear	2 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage (per node)	External Internal	4 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays or 8 hot-swap 9.5mm E1.S (PCIe5.0 x4) drive bays 1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum/Titanium, 2700W CRPS
System Cooling (per node)	Fan	4 PWM hot-swap dual-rotor 40x56 mm fans
Management (per node)	BMC	ASPEED AST2600
Security (per node)		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

1U12E-TURIN2/EVAC



Application

- E-commerce
- Virtualization
- Data Center Server
- Database Processing



PCI-E 5.0



Storage

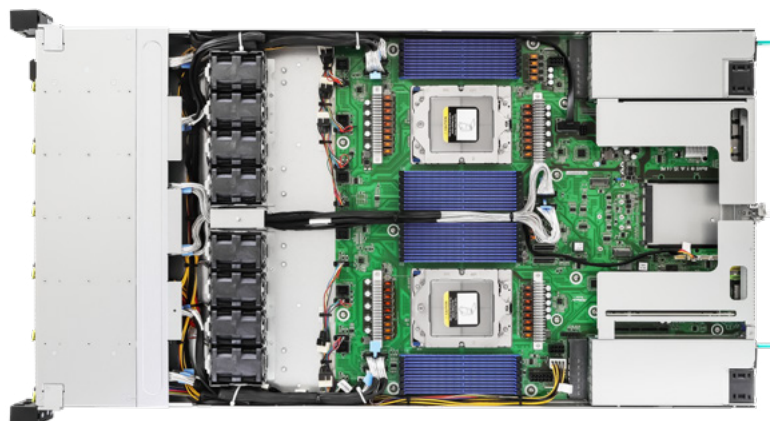


OCP NIC 3.0



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 360W
DIMM	Slot	12+12 DDR5 (1DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	830 x 438 x 43.5 mm (32.7" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset button
	LEDs	HDD activity LED, LAN 1/2 LED, System event LED
Rear I/O	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (1GbE) by Intel® i350
	USB	1 dedicated IPMI
Expansion Slots	Others	2 Type-A (USB3.2 Gen1)
		1 DB15 (VGA), 1DB9 (COM), 1 UID button w/ LED
	Rear	2 FHHL PCIe5.0 x16 [CPU0] [CPU1] 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]
Drive Bay/Storage	External	12 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W CRPS
System Cooling	Fan	8 easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		SPI TPM (13-pin, SPI) by optional accessory

1U12E-TURIN2



Application

- All-flash Storage Server
- Database Processing
- Virtualization
- E-commerce



PCI-E 5.0



Storage

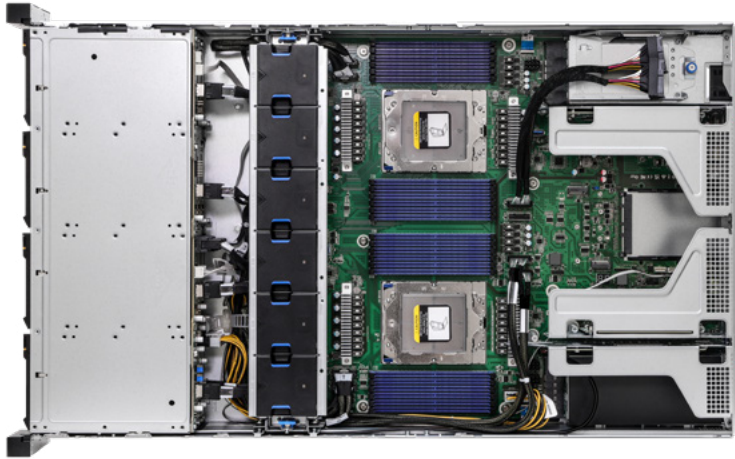


OCP NIC 3.0



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 240W
DIMM	Slot	12+12 DDR5 (1DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	830 x 438 x 43.5 mm (32.7" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset button, NMI button
	LEDs	HDD activity LED, LAN 1/2 LED, System fault LED
	I/O	1 Type-A (USB3.2 Gen1)
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 RJ45 (COM), 1 UID button w/ LED
Expansion Slots	Rear	2 FHHL PCIe5.0 x16 [CPU0] [CPU1] 1 OCP3.0 PCIe5.0 x16 [CPU0]
Drive Bay/ Storage	External	12 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	8 easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

2U12L8E-GENOA2



Application

- Software-defined Storage
- Data Analytics



PCI-E 5.0



Storage



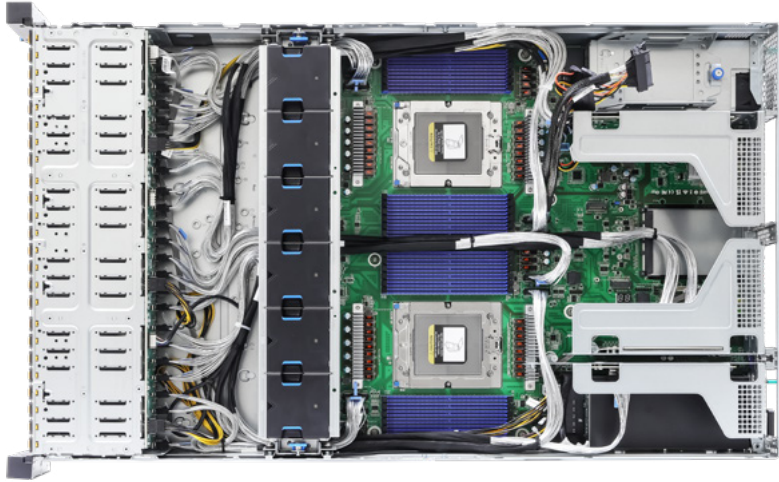
OCP NIC 3.0



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 360W
DIMM	Slot	12+12 DDR5 (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	770.0 X 438.0 X 86.4 mm (30.3" x 17.2" x 3.4")
Front Panel	Buttons	Power button, UID button, Reset button
	LEDs	Power status LED, LAN activity LED, HDD activity LED, System status LED
	I/O	1 Type-A (USB3.2 Gen1), 1 Type-A (USB2.0)
Rear I/O	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 RJ45 (COM), 1 UID button w/ LED
Expansion Slots	Rear	2 FHHL PCIe5.0 x16 or 1 FHHL PCIe5.0 x16, 2 FHHL PCIe5.0 x8 [CPU0] 2 FHHL PCIe5.0 x16 or 1 FHHL PCIe5.0 x16, 2 FHHL PCIe5.0 x8 [CPU1] 1 HHHL PCIe5.0 x16 or 2 HHHL PCIe5.0 x8 [CPU0] 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]
Drive Bay/Storage	External	8 hot-swap 3.5"/2.5" NVMe (PCIe4.0 x4)/SATA drive bays 4 hot-swap 3.5"/2.5" SATA drive bays ^{Note1}
	Internal	2 fixed 2.5" NVMe (PCIe5.0 x4) drive bays 1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0] ; 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W CRPS
System Cooling	Fan	6 PWM hot-swap 60x38 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

Note1: SAS drive is only supported with additional RAID/HBA cards

2U24E-GENOA2



Application

- All-flash Storage Server
- Data Processing
- Virtualization
- Cloud Computing
- High-end Enterprise Server
- Hyperconverged Storage



PCI-E 5.0



Storage



OCP NIC 3.0



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 360W
DIMM	Slot	12+12 DDR5 (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	770.0 x 438.0 x 86.4 mm (30.3" x 17.2" x 3.4")
Front Panel	Buttons	Power button, UID button, Reset button
	LEDs	Power status LED, LAN activity LED, HDD activity LED, System status LED
Rear I/O	I/O	1 Type-A (USB3.2 Gen1), 1 Type-A (USB2.0)
	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 RJ45 (COM), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 or 2 FHHL PCIe5.0 x8 [CPU0], 1 FHHL PCIe5.0 x16 or 2 FHHL PCIe5.0 x8 [CPU1] 1 HHHL PCIe5.0 x8 [CPU0], 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]
Drive Bay/Storage	External	24 hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	2 fixed 2.5" NVMe (PCIe5.0 x4) drive bays 1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0]; 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
Power Supply	Module	1+1, 80-PLUS Titanium, 2600W CRPS
System Cooling	Fan	6 PWM hot-swap 60x38 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

20U3N3G-TURIN



Application

- AI Data Center
- AI Inference
- Cloud Computing



GPGPU



PCI-E 5.0



OCP NIC 3.0



CPU (per sled)	Socket	1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors ^{Note1}
	TDP	Up to 400W ^{Note1}
DIMM (per sled)	Supported GPU	1 GPU or accelerator card up to 600W TDP at 25°C ambient or 300W at 35°C ambient
	Slot	8 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	20U, three-bay Shelf for Open Rack V3
	Chassis Dimension	537 x 803 x 93 mm (21.1" x 31.6" x 3.7", shelf dimensions)
Front Panel (per sled)	Buttons	Power button, Reset button, UID button w/ LED
	LEDs	Power LED, System event LED
Rear I/O	I/O	2 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA), 1 dedicated IPMI
	Power Connector	1 IT Gear connector for ORv3 50/48V busbar
Expansion Slots (per sled)	Front	1 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
	Internal	1 FHFL dual-slot PCIe5.0 x16
Drive Bay/ Storage (per sled)	External	4 hot-swap E1.S (PCIe5.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280 form factor
Power Supply	Module	Centralized 50/48V busbar, distributing up to 3200W per sled
System Cooling (per sled)	Fan	2 system fans (80 x 38 mm)
Management (per sled)	BMC	ASPEED AST2600
Security (per sled)		TPM (13-pin, SPI)

Note1: Please refer to CPU QVL or contact ASRock Rack to verify configuration.

20U3N-TURIN



Application

- Data Center Processing



PCI-E 5.0



OCP NIC 3.0



CPU (per sled)	Socket	1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors ^{Note1} Up to 400W ^{Note1}
DIMM (per sled)	Slot	8 DDR5 288-pin (1DPC); supports RDIMM up to 128GB each, max. 6400MT/s RDIMM-3DS up to 256GB each, max. 6400MT/s
System Physical Status	Form Factor	20U, three-bay Shelf for Open Rack V3
	Chassis Dimension	537 x 803 x 93mm (21.1" x 31.6" x 3.7", shelf dimensions)
Front Panel (per sled)	Buttons	Power button, Reset button, UID button w/ LED
	LEDs	Power LED, System event LED
	I/O	2 Type-A (USB3.2 Gen1), 1 Mini-DisplayPort (VGA), 1 dedicated IPMI
Rear I/O	Power connector	1 IT Gear connector for ORv3 50/48V busbar
Expansion Slots (per sled)	External	1 HHH PCIe5.0 x16
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage (per sled)	External	4 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
	Internal	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280 form factor
Power Supply	Module	Centralized 50/48V busbar, distributing up to 1600W per sled
System Cooling (per sled)	Fan	2 system fans (80 x 38mm)
Management (per sled)	BMC	ASPEED AST2600
Security (per sled)		TPM (13-pin, SPI)

Note1: Please refer to CPU QVL or contact ASRock Rack to verify configuration.

20U3N-GENOA



Application

- Data Center Processing



PCI-E 5.0

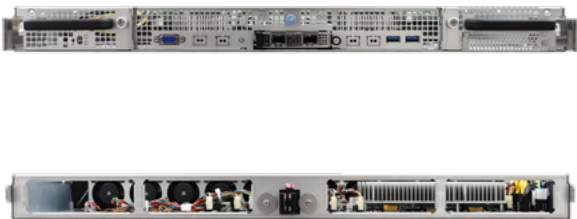
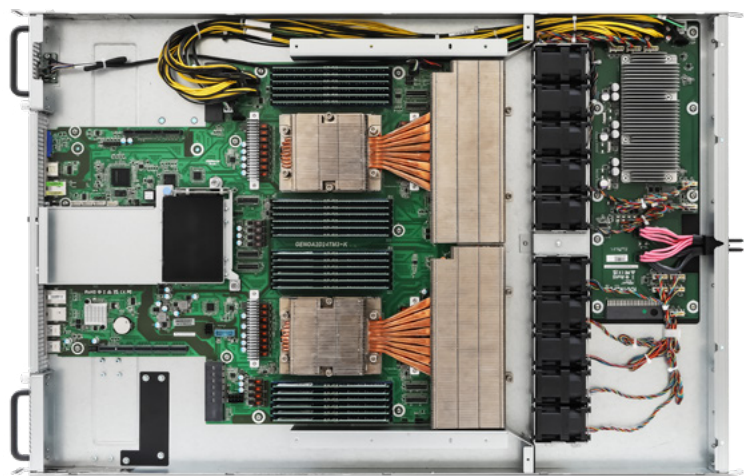


OCP NIC 3.0



CPU (per sled)	Socket	1 Socket SP5 (LGA6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
DIMM (per sled)	Slot	8 DDR5 (1DPC)
System Physical Status	Form Factor Chassis Dimension	20U, three-bay Shelf for Open Rack V3 573 x 800 x 88 mm (D/W/H, Shelf Dimensions)
Front Panel (per sled)	Buttons LEDs I/O	Power button, Reset button, UID button w/ LED Power LED, System fault LED 1 Mini-DisplayPort (VGA), 2 Type-A (USB3.2 Gen1), 1 dedicated IPMI
Rear I/O	Power connector	1 IT Gear connector for ORv3 50V busbar
Expansion Slots (per sled)	External	1 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage (per sled)	External Internal	4 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays 2 M-key (PCIe5.0 x4 or SATA 6Gb/s), support 22110/2280 form factor
Power Supply	Module	Centralized 50V busbar to OCPV3_PDB/1V distributed up to 1000W
System Cooling (per sled)	Fan	2 system fans (80 x 56 mm)
Management (per sled)	BMC	ASPEED AST2600
Security (per sled)		TPM (13-pin, SPI) by optional accessory

10U1N-TURIN2



Application

- Data Center Processing



PCI-E 5.0



OCP NIC 3.0



CPU	Socket	1+1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	TDP	Up to 400W
DIMM	Slot	12+12 DDR5 (1DPC)
System Physical Status	Form Factor	10U, one-bay Shelf for Open Rack V2
	Chassis Dimension	537 x 800 x 45.5 mm (D/W/H, Shelf Dimensions)
Front Panel	Buttons	Power button, Reset button, UID button w/ LED
	LEDs	Power LED
	I/O	2 Type-A (USB3.2 Gen1), 1 dedicated IPMI
Rear I/O	Power connector	1 IT Gear connector for ORv2 54V busbar
Expansion Slots	External	1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage	External	1 easy-swap 2.5" NVMe (PCIe5.0 x4) drive bay
	Internal	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0]
		1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
Power Supply	Module	Centralized 54V busbar to 10U1N_PDB, CRPS_IPB distributed up to 2600W
System Cooling	Fan	8 easy-swap 40x56 mm fans
Management	BMC	ASPEED AST2600
Security		TPM (13-pin, SPI) by optional accessory

TURIND8UD-2T/X550



10Gbase-T



PCI-E 5.0



6400MHz

SLOT6: PCIe5.0 / CXL2.0 x16

SLOT5: PCIe5.0 / CXL2.0 x16

SLOT4: PCIe5.0 / CXL2.0 x16

SLOT3: PCIe5.0 / CXL2.0 x16

2 M.2 (PCIe5.0 x4)

1 MCIO (PCIe5.0 x4)

2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)

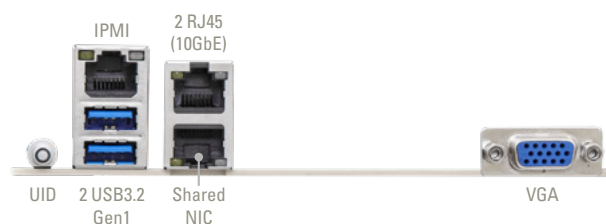
2 MCIO (PCIe5.0 x8)

12V DC-in

Micro-fit (ATX PSU signal)

Application

- Big Data Analytics
- Machine Learning
- AI Training and Inference



Power source		Supports ATX PSU and 12V DC-in
Form Factor		10.4" x 10.5"
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 6400MHz; 3DS RDIMM: up to 256GB, max. 6400MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT5: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT4: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT3: PCIe5.0 / CXL2.0 x16 ^{Note1}
	Others	2 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4)
Storage	M.2	2 M-key (PCIe5.0 x4), support 2280/2260/2242/2230 form factor
	SATA port	16 SATA 6 Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Intel® X550
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

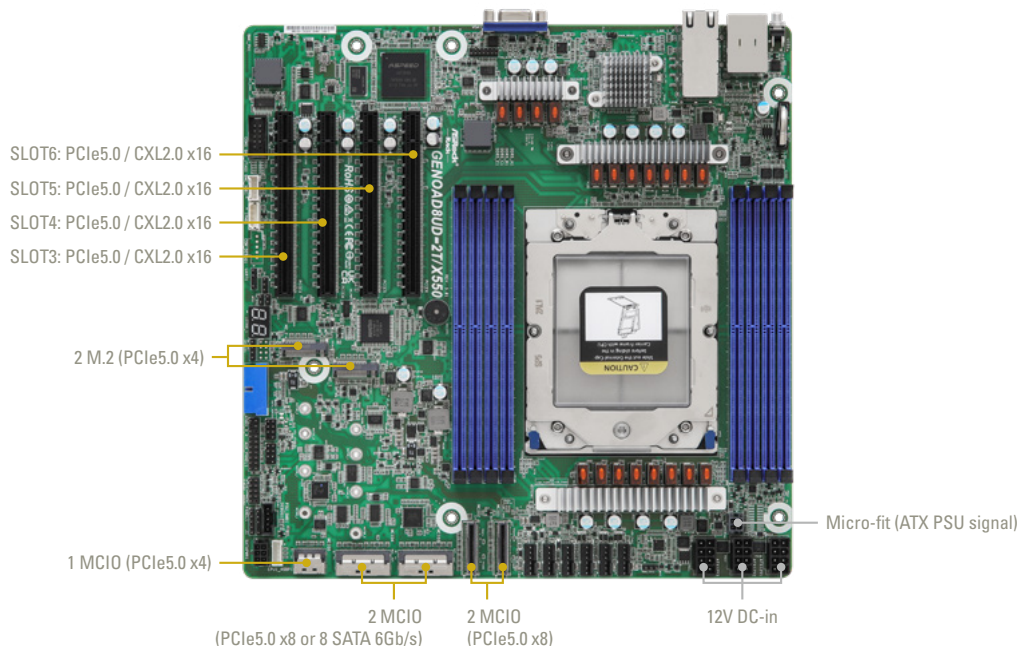
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10Gbase-T

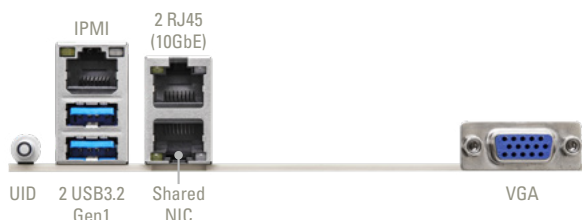


PCI-E 5.0



Application

- Compact Storage Server
- Enterprise NAS
- Compact GPU Tower



Power source		Supports ATX PSU and 12V DC-in
Form Factor		10.4" x 10.5"
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT5: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT4: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT3: PCIe5.0 / CXL2.0 x16 ^{Note1}
	Others	2 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4)
Storage	M.2	2 M-key (PCIe5.0 x4), support 2280/2260/2242/2230 form factor
	SATA port	16 SATA 6 Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Intel® X550
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIND8-2L2T



10Gbase-T



PCI-E 5.0



6400MHz

SLOT2: PCIe5.0 / CXL2.0 x16

SLOT1: PCIe5.0 / CXL 2.0 x8

2 M.2
(PCIe5.0 x4 or SATA 6Gb/s)

SLOT3: PCIe5.0 / CXL 2.0 x8

SLOT4: PCIe5.0 x16

SLOT5: PCIe5.0 x16

SLOT6: PCIe5.0 / CXL2.0 x16

3 ATX 12V

2 MCIO (PCIe5.0 x8)

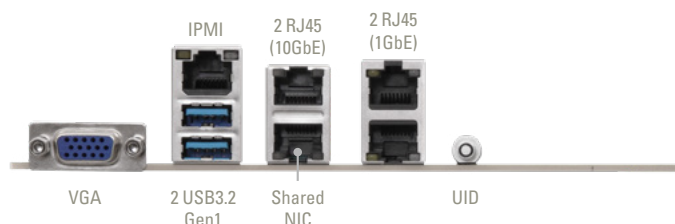
Micro-fit
(ATX PSU signal)

2 MCIO (PCIe5.0 x8)

1 MCIO
(PCIe5.0 x8 or 8 SATA 6Gb/s)

Application

- Mainstream Server/Workstation
- Web Hosting



Form Factor		CEB (12" x 10.5")
Processor System	CPU	1 Socket SP5 (LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); supports RDIMM up to 128GB (2Rx4) each, max. 6400MHz RDIMM-3DS up to 256GB (2Rx4) each, max. 6400MHz
	PCle slot	SLOT6, 2: FL PCIe5.0 / CXL2.0 ^{Note1} x16 SLOT5: FL PCIe5.0 x16 SLOT4: FL PCIe5.0 x16 SLOT3, 1: FL PCIe5.0 / CXL2.0 ^{Note1} x8
Expansion	Others	1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
Storage	M.2	1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 2280 form factor 1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	10 SATA 6Gb/s: 1 MCIO, 2 M.2
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

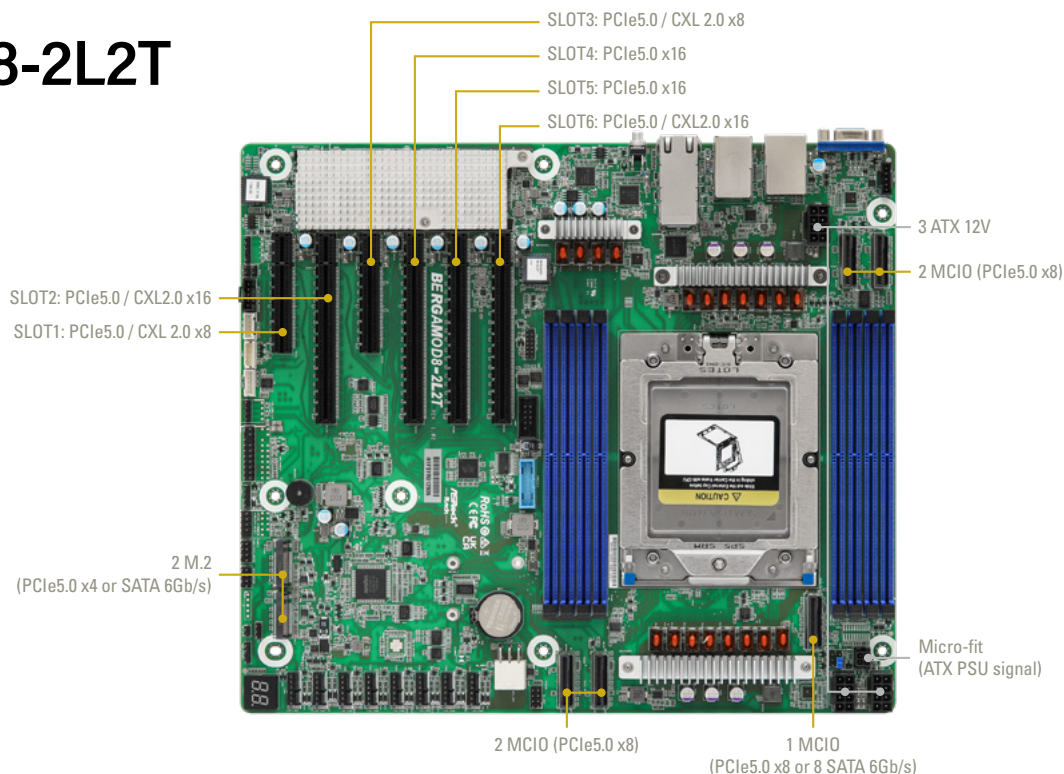
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10Gbase-T

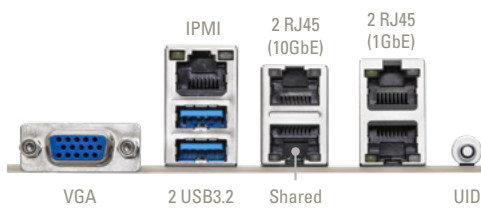


PCI-E 5.0



Application

- Mainstream Server/Workstation
- Web Hosting



Form Factor		CEB (12" x 10.5")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT6, 2: FL PCIe5.0 / CXL2.0 ^{Note1} x16 SLOT5: FL PCIe5.0 x16 SLOT4: FL PCIe5.0 x16 SLOT3, 1: FL PCIe5.0 / CXL2.0 ^{Note1} x8
	Others	1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
Storage	M.2	1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 2280 form factor 1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	10 SATA 6Gb/s: 1 MCIO, 2 M.2
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIND8X-2T/500W



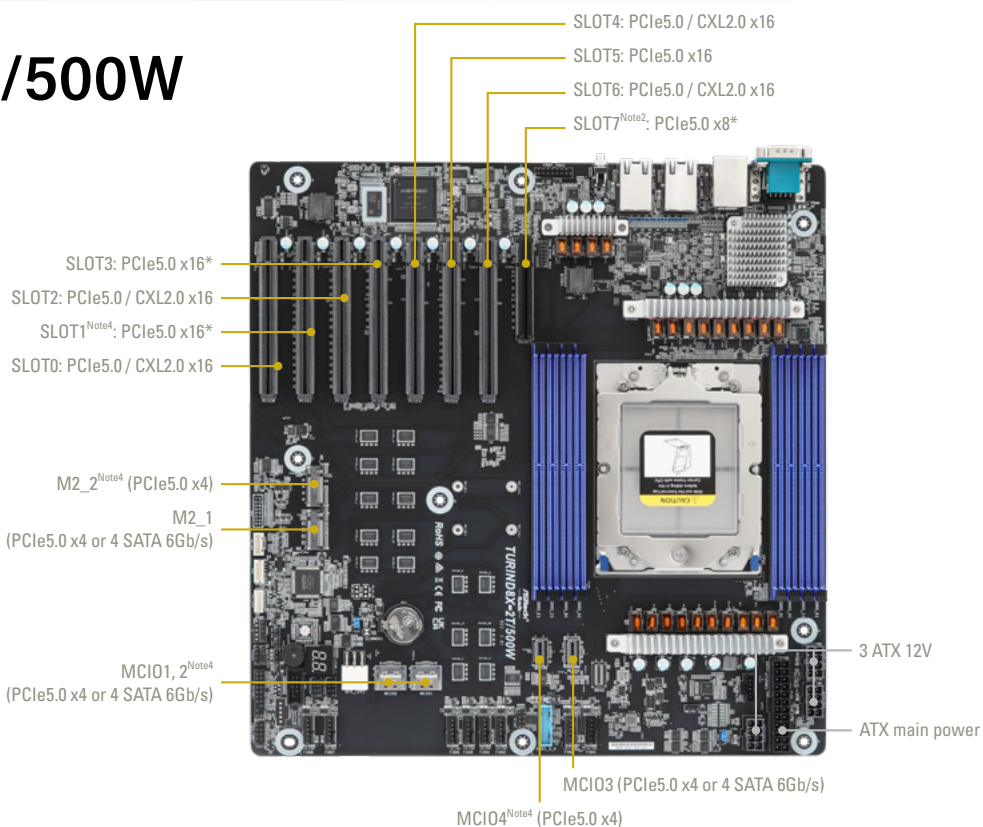
10Gbase-T



PCI-E 5.0

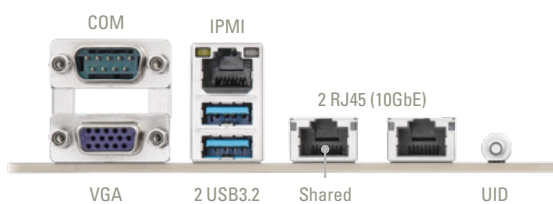


6400MHz



Application

- Mainstream Server/Workstation
- Web Hosting



Form Factor		EEB like (12.63" x 13")
Processor System	CPU	1 Socket SP5 (LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MHz RDIMM-3DS up to 256GB each, max. 6400MHz
Expansion	PCIe slot	SLOT7: PCIe5.0 x8 SLOT6, 4, 2, 0: PCIe5.0 / CXL 1.1 x16 SLOT5, 3, 1: PCIe5.0 x16
	Others	3 MCIO (PCIe5.0 x4 or 4 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4)
Storage	M.2	1 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor 1 M-key (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	13 SATA 6Gb/s: 3 MCIO, 1 M.2
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
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
	COM port	1 DB9 (COM), 1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

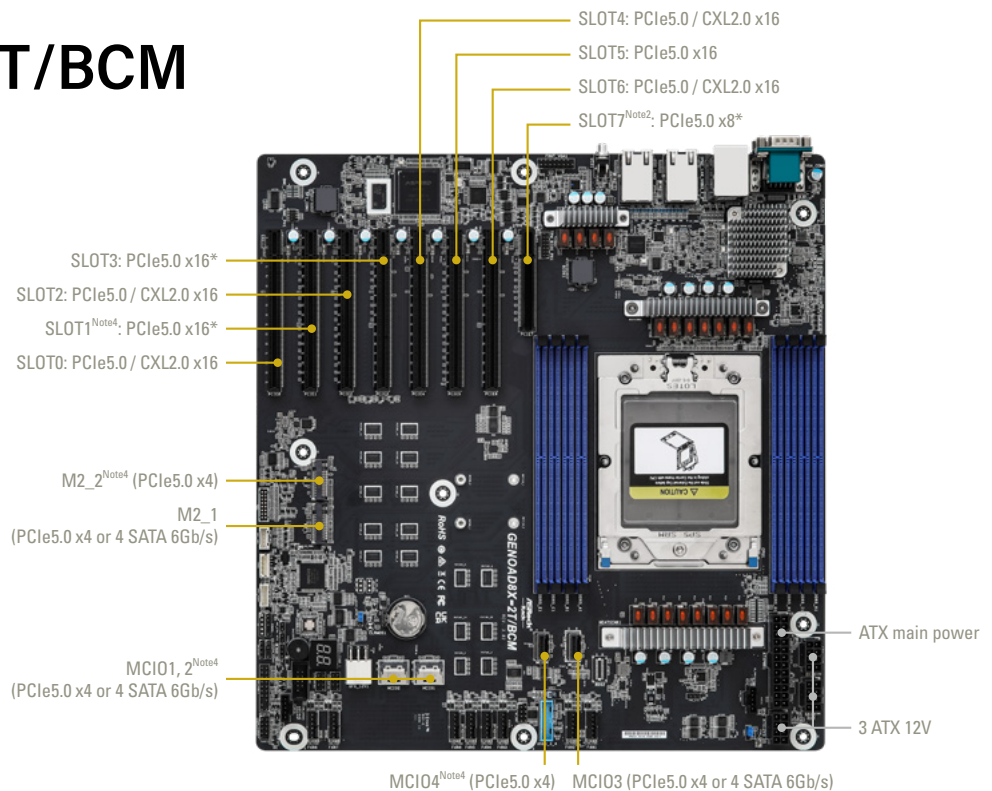
GENOAD8X-2T/BCM



10Gbase-T

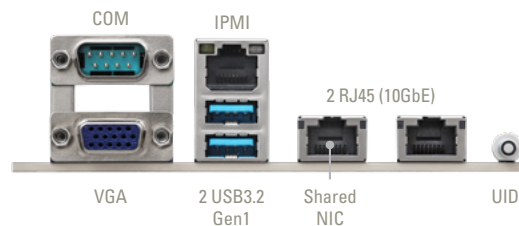


PCI-E 5.0



Application

- Mainstream Server/Workstation
- Web Hosting



Form Factor		EEB (12.63" x 13") ^{Note1}
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT7 ^{Note2} : PCIe5.0 x8 SLOT6, 4, 2, 0: PCIe5.0 / CXL2.0 x16 ^{Note3} SLOT5, 3: PCIe5.0 x16 SLOT1 ^{Note4} : PCIe5.0 x16
	Others	MCI01, 2 ^{Note2} (PCIe5.0 x4 or 4 SATA 6Gb/s) MCI03 (PCIe5.0 x4 or 4 SATA 6Gb/s) MCI04 ^{Note4} (PCIe5.0 x4)
Storage	M.2	M2_1 (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor, M2_2 ^{Note4} (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	13 SATA 6Gb/s: 3 MCI0, 1 M.2
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
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
	COM port	1 DB9 (COM), 1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Extend 10.1mm left and 6mm right

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.

Note3: Supports CXL1.1 while installing AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note4: SLOT1 shared lanes with MCI04 and M2_2. SLOT1 auto-switch to PCIe5.0 x8 when either MCI04 or M2_2 populated.

* Via re-drivers.

TURIND8QM3-2T/500W



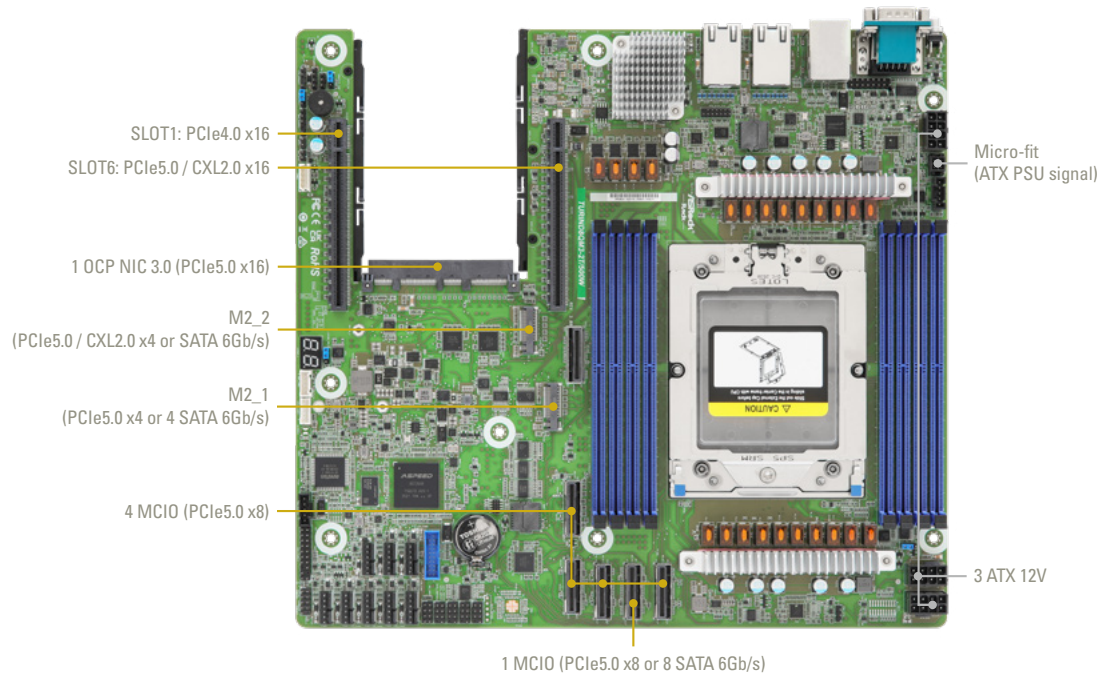
10Gbase-T



PCI-E 5.0

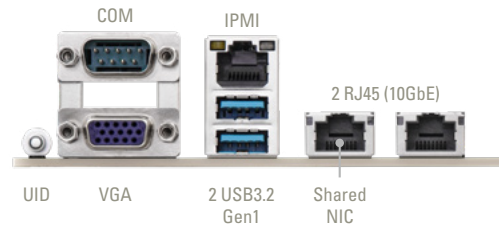


6400MHz



Application

- NVMe Storage Server
- Web Hosting
- General Purpose Server



Form Factor		CEB (12" x 11")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 6400MHz; 3DS RDIMM: up to 256GB, max. 6400MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT1: PCIe4.0 x16
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
Storage	M.2	M2_1 (PCIe5.0 / CXL2.0 x4 or SATA 6Gb/s) ^{Note1} , supports 22110/2280 form factor M2_2 (PCIe5.0 / CXL2.0 x4 or SATA 6Gb/s) ^{Note1} , supports 2280 form factor
	SATA port	26 SATA 6Gb/s: 3 MCIO, 2 M.2
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
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
	COM port	1 DB9 (COM)
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

GENOAD8QM3-2T/BCM



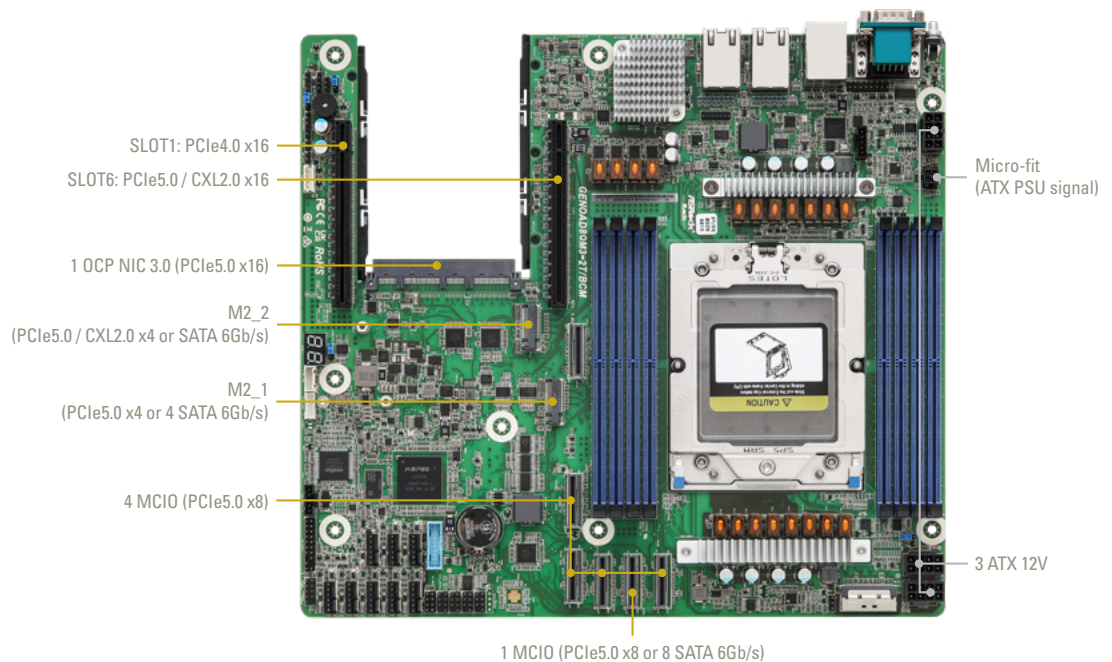
PCI-E 5.0



OCP NIC 3.0

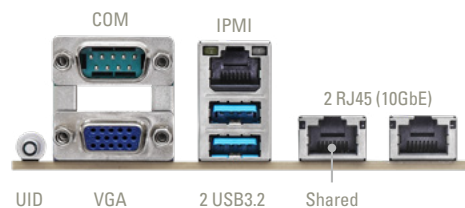


6400MHz



Application

- NVMe Storage Server
- Web Hosting
- General Purpose Server



Form Factor		CEB (12" x 11")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT1: PCIe4.0 x16
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
Storage	M.2	M2_1 (PCIe5.0 / CXL2.0 x4 or SATA 6Gb/s) ^{Note1} , supports 22110/2280 form factor M2_2 (PCIe5.0 / CXL2.0 x4 or SATA 6Gb/s) ^{Note1} , supports 2280 form factor
	SATA port	26 SATA 6Gb/s: 3 MCIO, 2 M.2
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
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
	COM port	1 DB9 (COM)
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIND8HM3



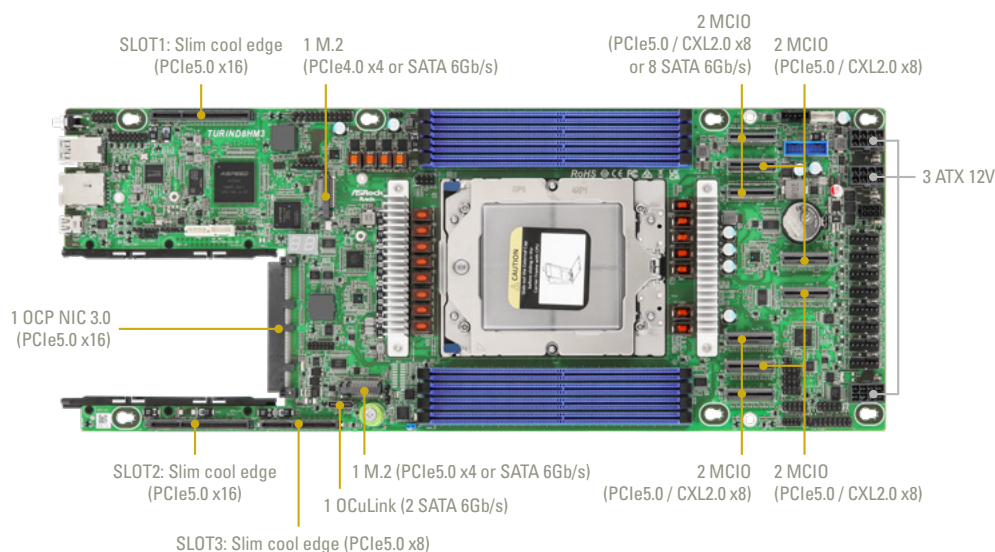
PCI-E 5.0



OCP NIC 3.0

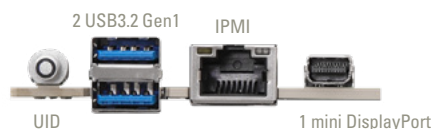


6400MHz



Application

- Multi-node Server
- Edge Server



Form Factor		Half-Width (6.6" x 17")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 6400MHz; 3DS RDIMM: up to 256GB, max. 6400MHz
Expansion	PCIe slot	SLOT3: Slim cool edge (PCIe5.0 x8) SLOT2: Slim cool edge (PCIe5.0 x16) SLOT1: Slim cool edge (PCIe5.0 x16)
	Others	2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} 6 MCIO (PCIe5.0 / CXL2.0 x8) Note1 1 OCuLink (2 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	18 SATA 6Gb/s: 2 MCIO, 2 M.2 2 SATA 6Gb/s by ASM1061: 1 OCuLink
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
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
	COM port	1 (9-pin) header
	Video	1 mini DisplayPort (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

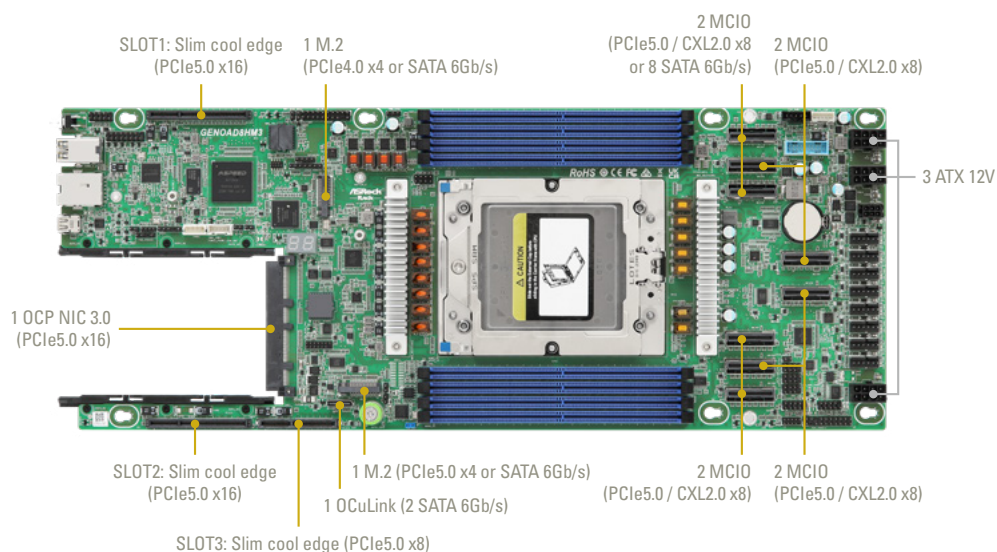
GENOAD8HM3



PCI-E 5.0

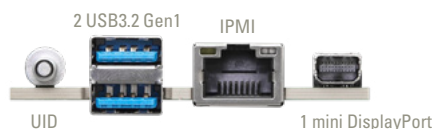


OCP NIC 3.0



Application

- Multi-node Server
- Edge Server



Form Factor		Half-Width (6.6" x 17")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT3: Slim cool edge (PCIe5.0 x8) SLOT2: Slim cool edge (PCIe5.0 x16) SLOT1: Slim cool edge (PCIe5.0 x16)
	Others	2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} 6 MCIO (PCIe5.0 / CXL2.0 x8) Note1 1 OCuLink (2 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor 1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	18 SATA 6Gb/s: 2 MCIO, 2 M.2 2 SATA 6Gb/s by ASM1061: 1 OCuLink
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
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
	COM port	1 (9-pin) header
	Video	1 mini DisplayPort (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIND24QM3-2L2T/500W



10Gbase-T



PCI-E 5.0



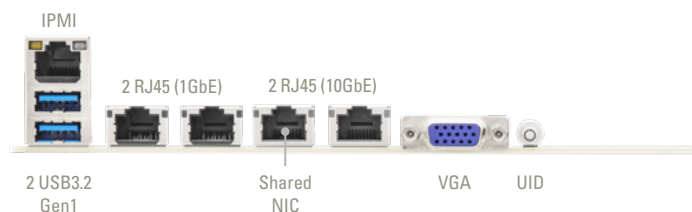
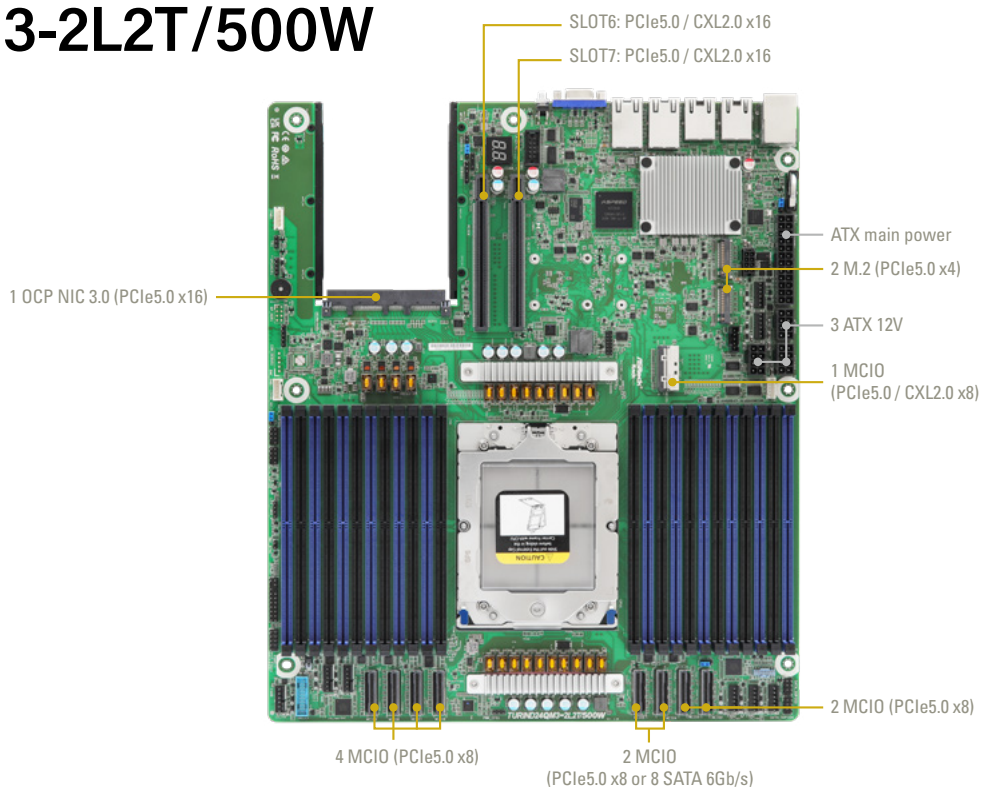
OCP NIC 3.0



6400

Application

- CSP
- All-flash Storage Server
- Cloud Computing



Form Factor		EEB (12" x 14")
Processor System	Socket	1 Socket SP5 (LGA 6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	24 DDR5 288-pin DIMM Slots (2DPC); supports RDIMM up to 128GB (2Rx4), max. 5200MHz (1DPC) / 4400MHz (2DPC) RDIMM-3DS up to 256GB (2Rx4), max. 5200MHz (1DPC) / 4000 (2DPC)
	Expansion	PCIe slot: SLOT7: PCIe5.0 / CXL2.0 ^{Note1} x16 SLOT6: PCIe5.0 / CXL2.0 ^{Note1} x16 Others: 7 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe5.0 x4), support 22110/2280/2260 form factor
	SATA port	Up to 16 SATA 6 Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM574162 RJ45 (1GbE) by Intel® i210
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 ^{Note1} x16)
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	TPM (13-pin, SPI)

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors.

GENOAD24QM3-2L2T/BCM



10Gbase-T



PCI-E 5.0

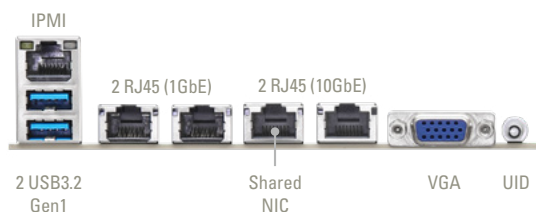
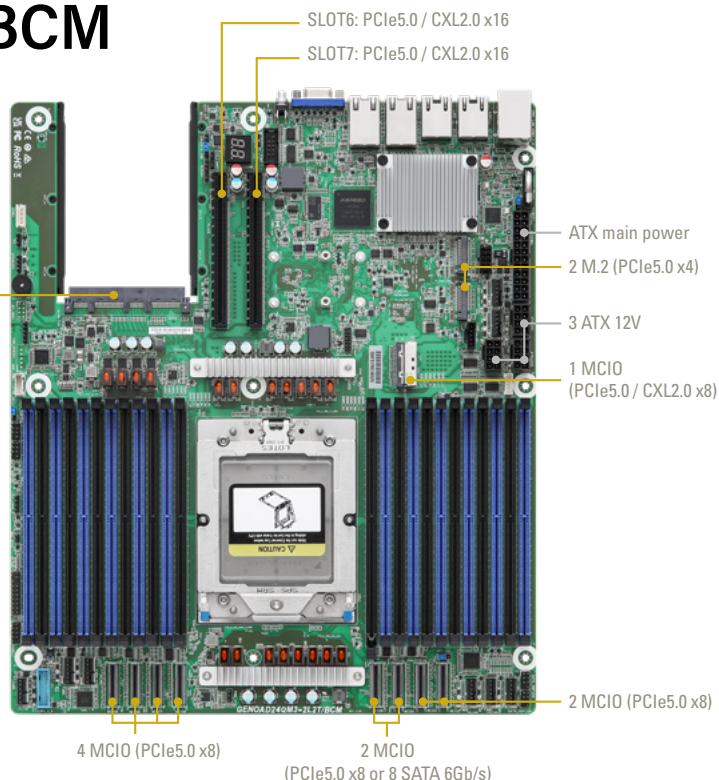


OCP NIC 3.0

Application

- CSP
- All-flash Storage Server
- Cloud Computing

1 OCP NIC 3.0 (PCIe5.0 x16)



Form Factor		EEB (12" x 14")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	24 DDR5 DIMM Slots (2DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT7: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1}
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} 6 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe5.0 x4 / CXL2.0 x4) ^{Note1} , support 22110/2280/2260 form factor
	SATA port	16 SATA 6 Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note1}
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F-CG
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 19-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

GENOAD24QM32-2L2T/BCM



10Gbase-T



PCI-E 5.0



OCP NIC 3.0

Application

- CSP
- All-flash Storage Server
- Cloud Computing

1 OCP NIC 3.0 (PCIe5.0 x16)

SLOT6: PCIe5.0 / CXL2.0 x16

ATX main power

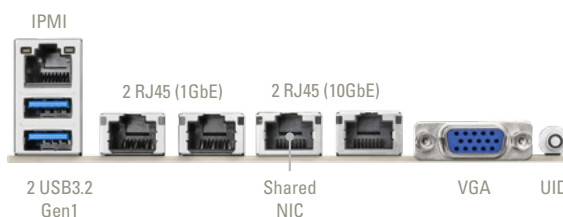
2 M.2 (PCIe5.0 x4)

3 ATX 12V

2 MCIO (PCIe5.0 x8)

4 MCIO (PCIe5.0 x8)

2 MCIO
(PCIe5.0 x8 or 8 SATA 6Gb/s)



Form Factor		EEB (12" x 14")
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	24 DDR5 DIMM Slots (2DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16
	Others	1 MCIO (PCIe5.0 / CXL2.0 x8), 6 MCIO (PCIe5.0 x8) 10 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	SATA port	16 SATA 6 Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16)
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F-CG
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 19-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

TURIND12M3-2Q/500W



PCI-E 5.0



OCP NIC 3.0



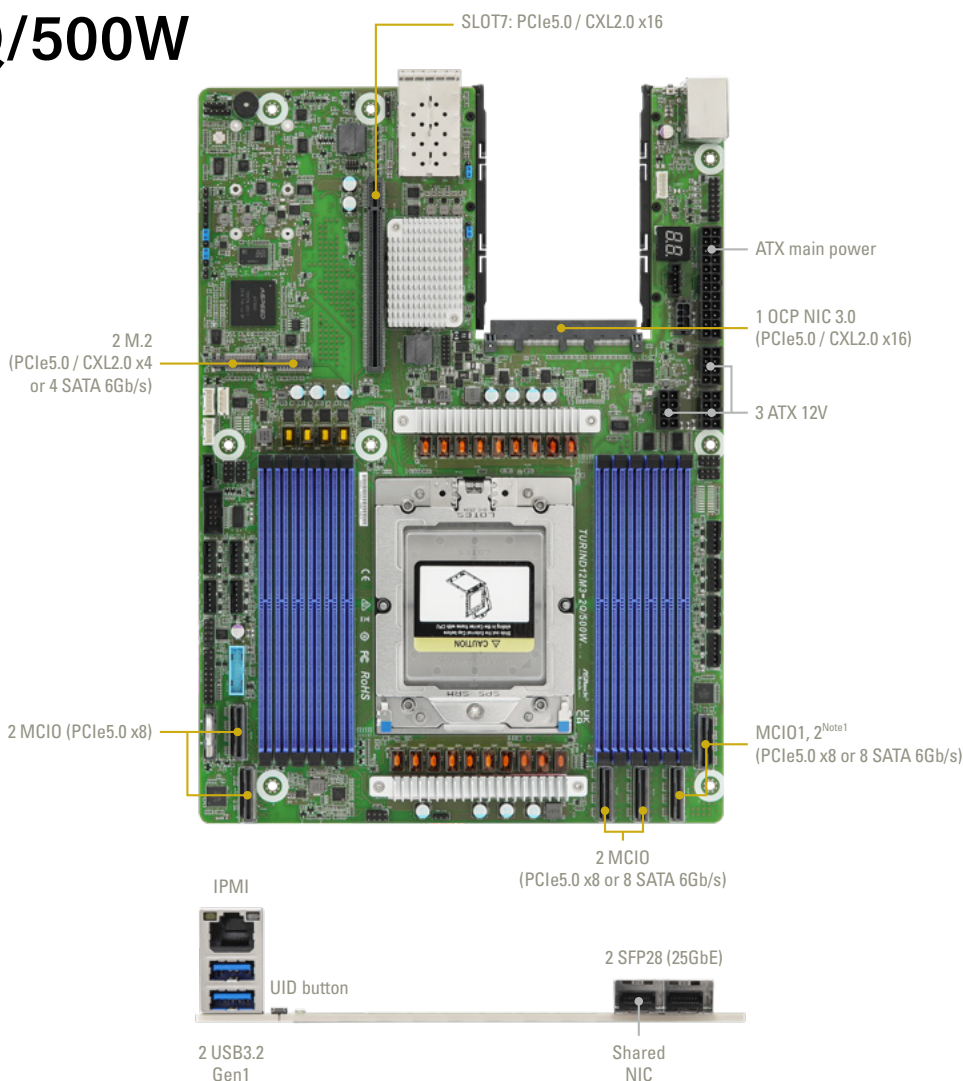
SFP28



6400MHz

Application

- All-flash Storage Server
- Cloud Computing
- CSP



Form Factor		9.6" x 13.39"
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	12 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 6400MHz; 3DS RDIMM: up to 256GB, max. 6400MHz
	Expansion	PCIe slot: SLOT7: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1} Others: 6 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe5.0 / CXL2.0 x4 or 4 SATA 6Gb/s) ^{Note1} , support 22110/2280/2260 form factor
	SATA port	Up to 24 SATA 6Gb/s: 2 MCIO, 8 SATA via optional M2U2_HD_G4 M.2 device
Network	SFP28	2 SFP28 (25GbE) by Broadcom BCM57414
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note1}
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
	COM port	1 (9-pin) header
	Video	1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIND12M3-2Q/E810



PCI-E 5.0



OCP NIC 3.0



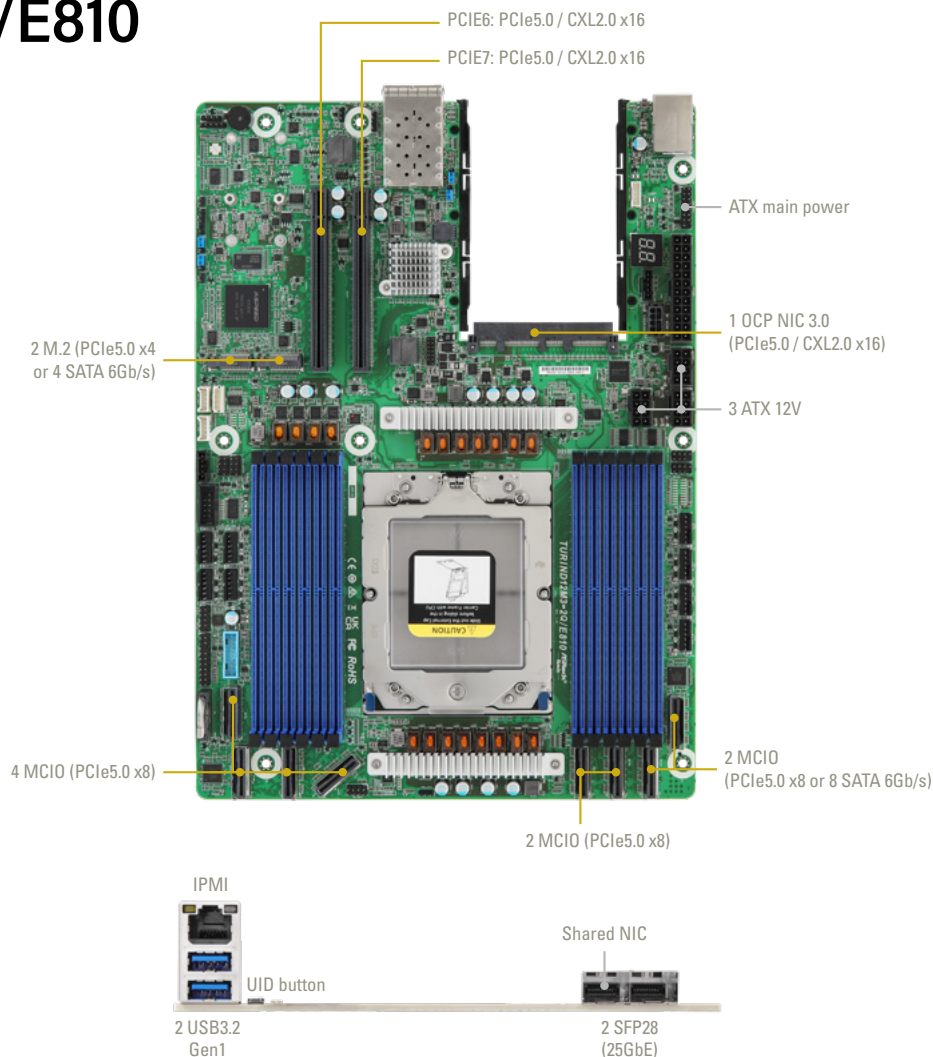
SFP28



6400

Application

- All-flash Storage Server
- Cloud Computing
- CSP



Form Factor		9.6" x 13.39"
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	12 DDR5 288-pin DIMM Slots (1DPC); supports RDIMM: up to 128GB (2Rx4), max. 6400MHz RDIMM-3DS: up to 256GB (2Rx4), max. 6400MHz
Expansion	PCIe slot	PCIe6: HL PCIe5.0 / CXL2.0 ^{Note1} x16 PCIe7: HL PCIe5.0 / CXL2.0 ^{Note1} x16
	Others	6 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), support 22110/2280/2260 form factor
	SATA port	Up to 24 SATA 6Gb/s: 2 MCIO, 8 SATA via optional M2U2_HD_G4 M.2 device
Network	SFP28	2 SFP28 (25GbE) by Intel® E810
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 ^{Note1} x16)
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
	COM port	1 (9-pin) header
	Video	1 (15-pin) header
Security	TPM	TPM (13-pin, SPI)

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors.

GENOAD12M3-2Q



PCI-E 5.0



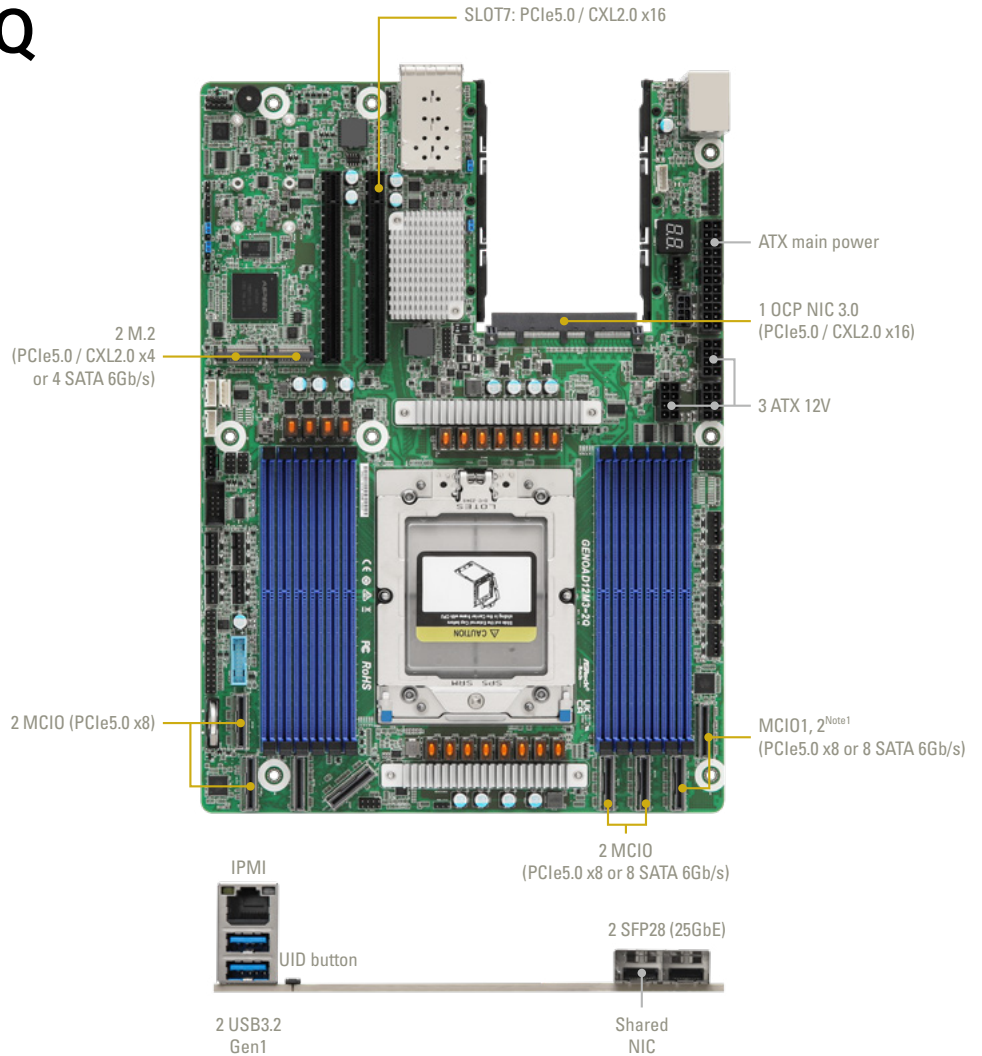
OCP NIC 3.0



SFP28

Application

- All-flash Storage Server
- Cloud Computing
- CSP



Form Factor		9.6" x 13.39"
Processor System	CPU	1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	12 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT7: PCIe5.0 / CXL2.0 x16 ^{Note1} SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note1}
	Others	6 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe5.0 / CXL2.0 x4 or 4 SATA 6Gb/s) ^{Note1} , support 22110/2280/2260 form factor
	SATA port	Up to 24 SATA 6Gb/s: 2 MCIO, 8 SATA via optional M2U2_HD_G4 M.2 device
Network	SFP28	2 SFP28 (25GbE) by Broadcom BCM57414
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note1}
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
	COM port	1 (9-pin) header
	Video	1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

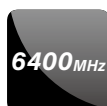
TURIN2D16-2T/ROT



PCI-E 5.0



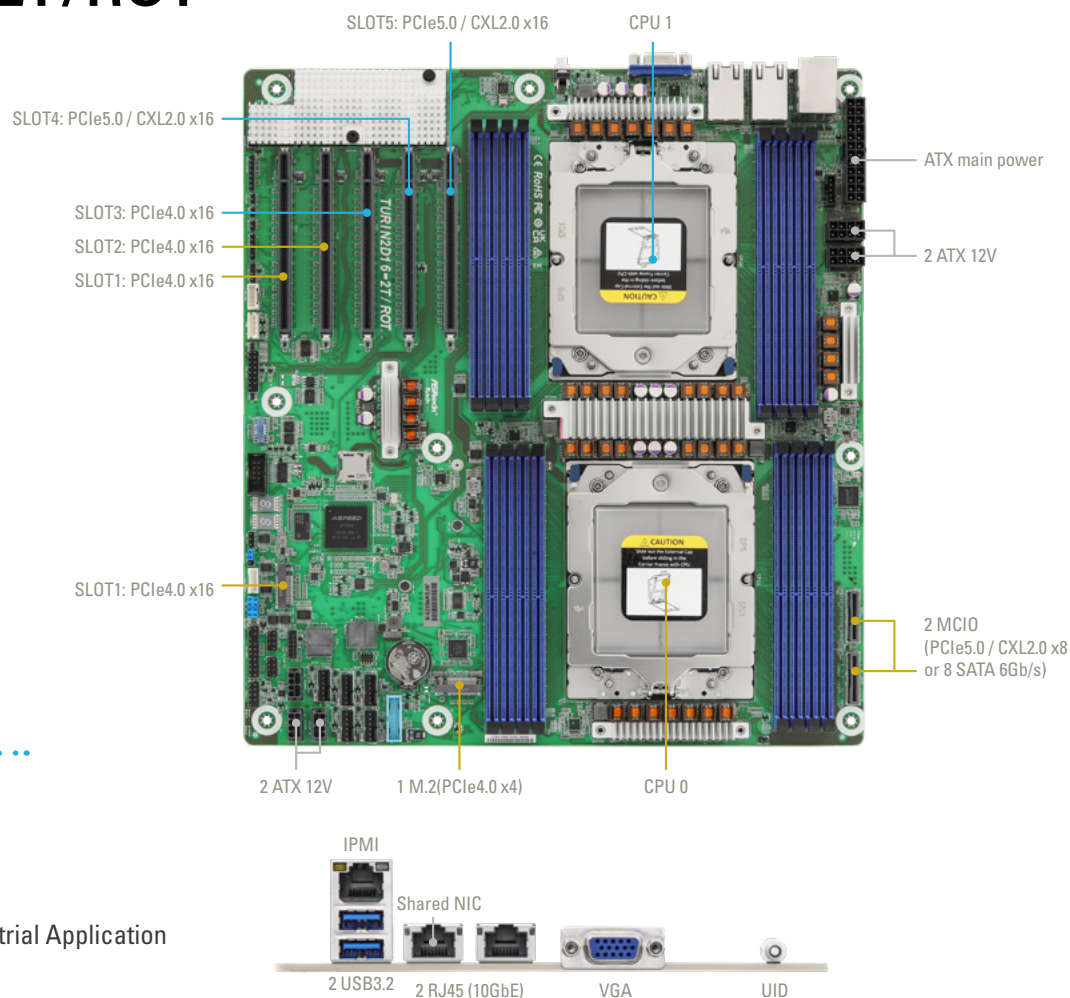
10Gbase-T



6400MHz

Application

- Mainstream Server for SMB
- High-end Workstation / Industrial Application



Form Factor		EEB (12" x 13.2")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8+8 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MHz RDIMM-3DS up to 256GB each, max. 6400MHz
	PCle slot	SLOT5: PCIe5.0 / CXL2.0 x16 ^{Note1} [CPU1] SLOT4: PCIe5.0 / CXL2.0 x16 ^{Note1} [CPU1] SLOT3: PCIe4.0 x16 [CPU1] SLOT2: PCIe4.0 x16 [CPU0] SLOT1: PCIe4.0 x16 [CPU0]
Storage	Others	2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0]
	M.2	1 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU0] 1 M-key for RoT function, supports 3060 form factor
	SATA port	16 SATA 6Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIN2D16-2T



PCI-E 5.0



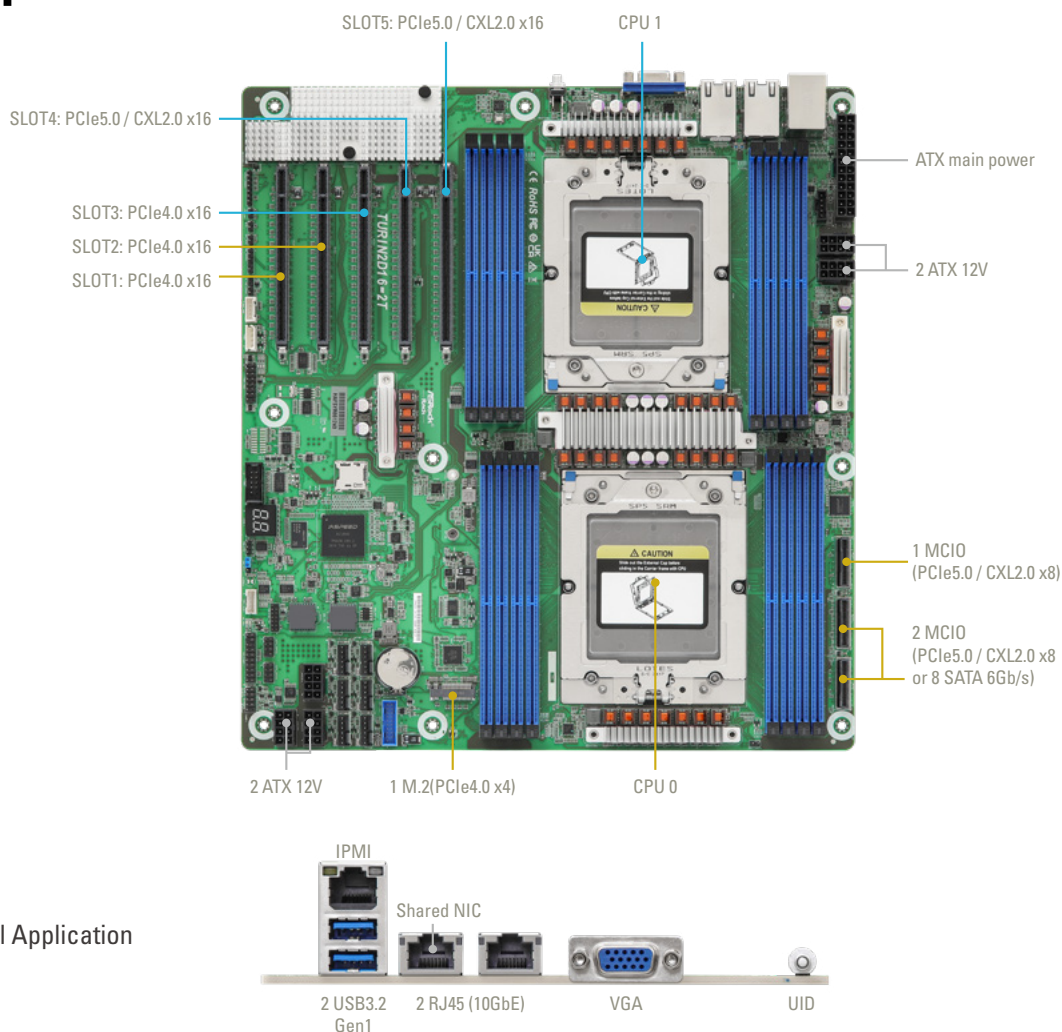
10Gbase-T



6400MHz

Application

- Mainstream Server for SMB
- High-end Workstation / Industrial Application



Form Factor		EEB (12" x 13.2")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8+8 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MHz RDIMM-3DS up to 256GB each, max. 6400MHz
Expansion	PCIe slot	SLOT5: PCIe5.0 / CXL2.0 x16 ^{Note1} [CPU1] SLOT4: PCIe5.0 / CXL2.0 x16 ^{Note1} [CPU1] SLOT3: PCIe4.0 x16 [CPU1] SLOT2: PCIe4.0 x16 [CPU0] SLOT1: PCIe4.0 x16 [CPU0]
	Others	2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0] 1 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU0]
Storage	M.2	1 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU0]
	SATA port	16 SATA 6Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
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
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

TURIN2D24TM3-2L+/500W



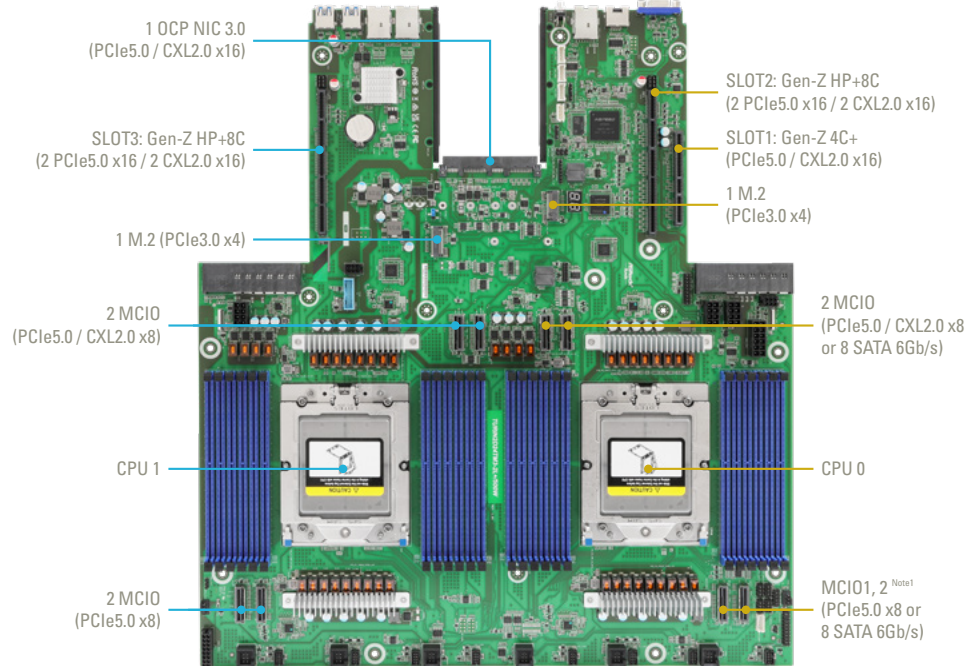
PCI-E 5.0



OCP NIC 3.0



6400MHz



Application

- Software-defined application
- E-commerce
- HCI



Form Factor		Proprietary T-shape (17.0149" x 18.8607")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MHz; RDIMM-3DS up to 256GB each, max. 6400MHz
Expansion	PCIe slot	SLOT3: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL2.0 x16) ^{Note1} [CPU1] SLOT2: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL2.0 x16) ^{Note1} [CPU0] SLOT1: Gen-Z 4C+ (PCIe5.0 / CXL2.0 x16) ^{Note1} [CPU0]
	Others	MCIO1, 2 (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note2} 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
	SATA port	Up to 32 SATA 6 Gb/s: 4 MCIO
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note1} [CPU1]
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 26-pin header, 1 via 19-pin header
	COM port	1 RJ45 (COM)
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note2: MCIO1 and MCIO2 support PCIe only while installing 2 processors

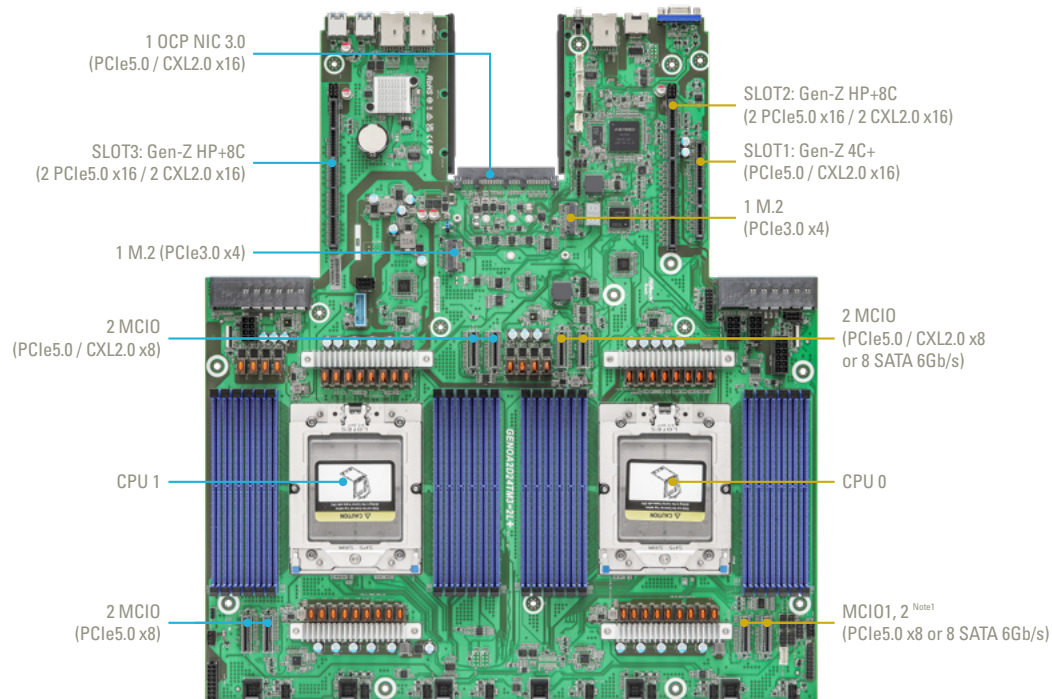
GENOA2D24TM3-2L+



PCI-E 5.0



OCP NIC 3.0



Application

- Software-defined application
- E-commerce
- HCI



Form Factor		Proprietary T-shape (17.0149" x 18.8607")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT3: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL2.0 x16) ^{Note1} [CPU1] SLOT2: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL2.0 x16) ^{Note1} [CPU0] SLOT1: Gen-Z 4C+ (PCIe5.0 / CXL2.0 x16) ^{Note1} [CPU0]
	Others	MCIO1, 2 (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note2} 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	1 M-key (PCIe3.0 x4), supports 2280/2260/2242/2230 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280/2242 form factor [CPU1]
	SATA port	Up to 32 SATA 6 Gb/s: 4 MCIO
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note1} [CPU1]
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 26-pin header, 1 via 19-pin header
	COM port	1 RJ45 (COM)
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note2: MCIO1 and MCIO2 support PCIe only while installing 2 processors

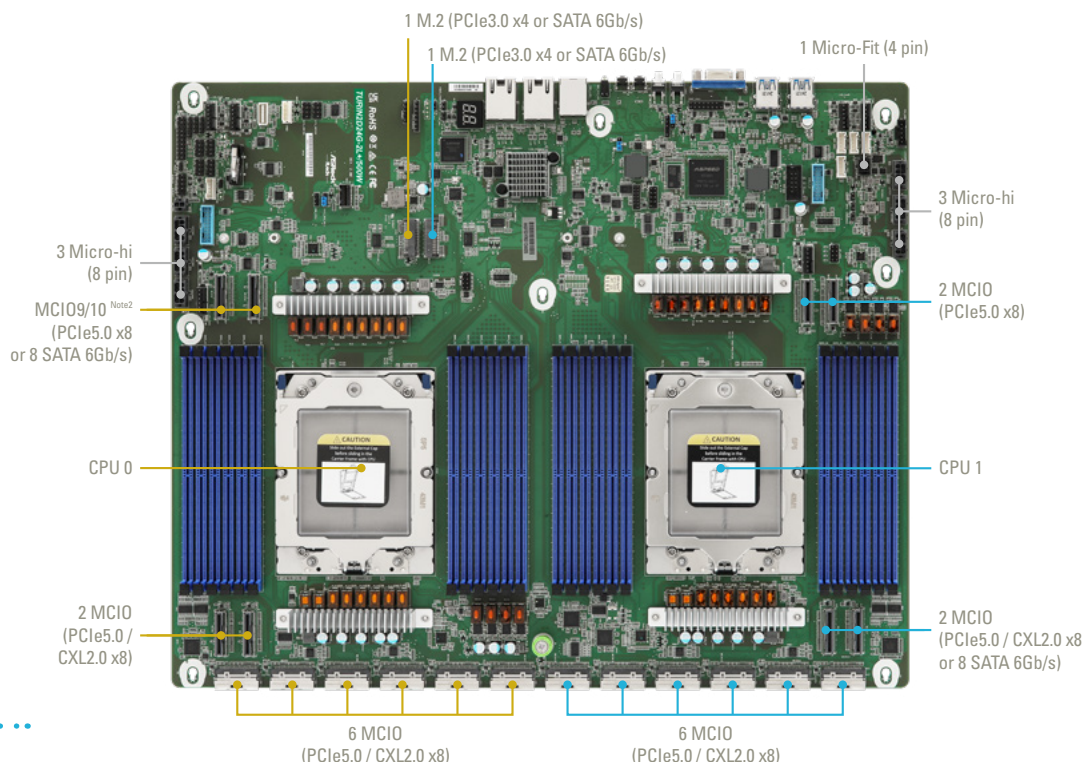
TURIN2D24G-2L+/500W



PCI-E 5.0

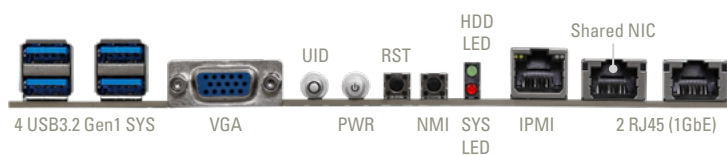


6400MHz



Application

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



Form Factor		Proprietary (16.93"x 13.78")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM up to 128GB each, max. 6400MHz RDIMM-3DS up to 256GB each, max. 6400MHz
Expansion	Others	6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note2} 6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	M2_1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0] M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]
	SATA port	32 SATA 6Gb/s: 4 MCIO 2 SATA 6Gb/s by ASM1061R: 2 M.2
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	8 USB3.2 Gen1 ports: 4 rear Type-A, 4 via 19-pin headers
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

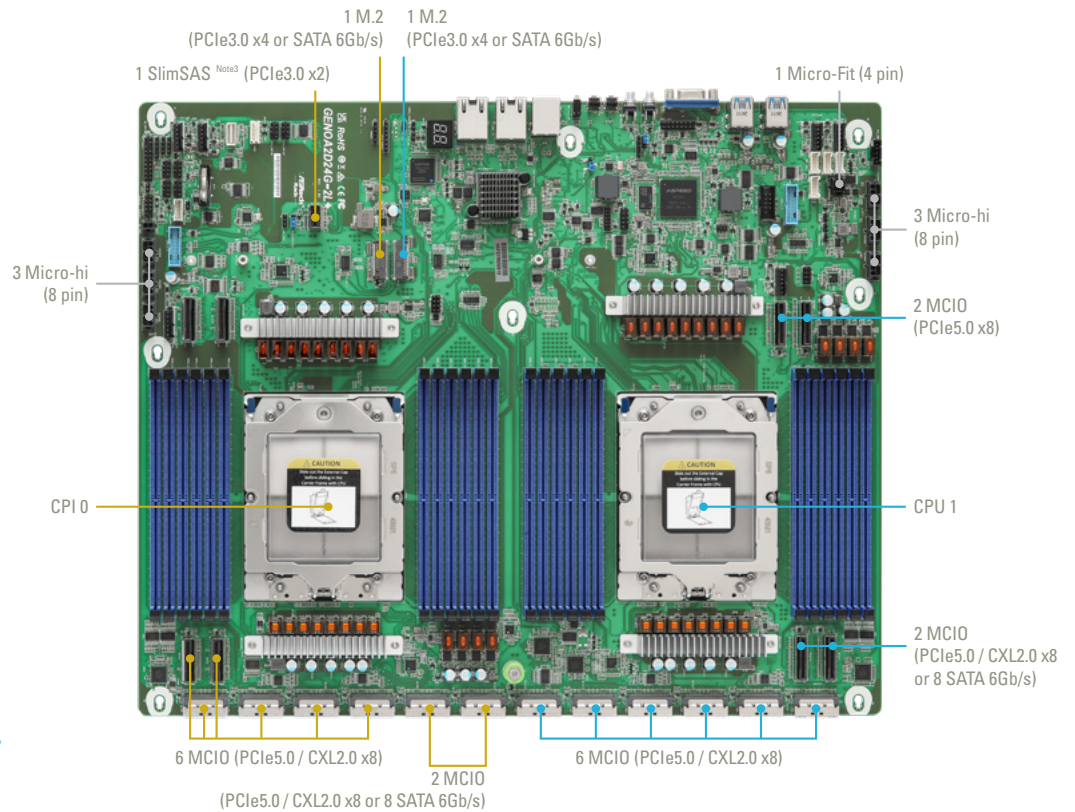
Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note2: MCIO9, 10 support PCIe only while installing 2 processors

GENOA2D24G-2L+



PCI-E 5.0



Application

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

Form Factor		Proprietary (16.93"x 13.78")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	12+12 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	Others	6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note2} 6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1] 1 SlimSAS (PCIe3.0 x2) [CPU0] ^{Note3}
Storage	M.2	M2_1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0] M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU1]
	SATA port	32 SATA 6 Gb/s: 4 MCIO 2 SATA 6Gb/s by ASM1061: 2 M.2
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	8 USB3.2 Gen1 ports: 4 rear Type-A, 4 via 19-pin headers
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note2: MCIO9, 10 support PCIe only while installing 2 processors

Note3: SlimSAS (by jumper setting):
PCIe3.0 x2 when M2_1 supports only PCIe3.0 x2 or SATA 6Gb/s
No function when M2_1 supports PCIe3.0 x4 or SATA 6Gb/s

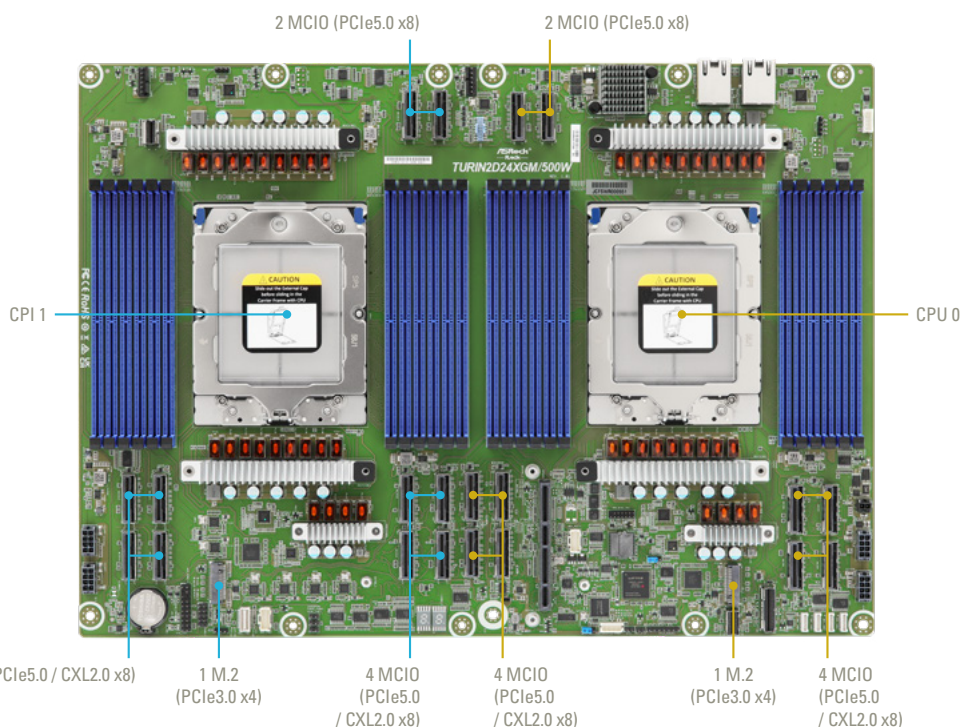
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PCI-E 5.0

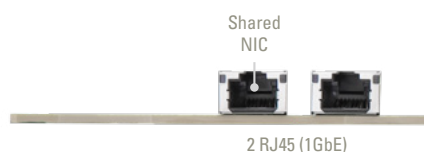


6400MHz



Application

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



Form Factor		MGX (424.5 x 305.59 mm)
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	12+12 DDR5 288-pin DIMM Slots (1DPC); supports RDIMM: up to 128GB (2Rx4), max. 6400MHz RDIMM-3DS: up to 256GB (2Rx4), max. 6400MHz
	Others	8 MCIO (PCIe5.0 / CXL2.0 x8) [CPU0] 2 MCIO (PCIe5.0 x8) [CPU0] 8 MCIO (PCIe5.0 / CXL2.0 x8) [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU0] 1 M-key (PCIe3.0 x4), supports 2280 form factor [CPU1]
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600 on DC-SCM 2.0 module
	Dedicated IPMI	1 RJ45 on 4UMGX_IOB
I/O	USB	2 USB3.2 Gen1 ports: 1 on board, 1 via 4UMGX_IOB
	COM port	1 (9-pin) header
	Video	1 Mini-DisplayPort (VGA) on 4UMGX_IOB
Security	TPM	Supports 13-pin (SPI) TPM modules

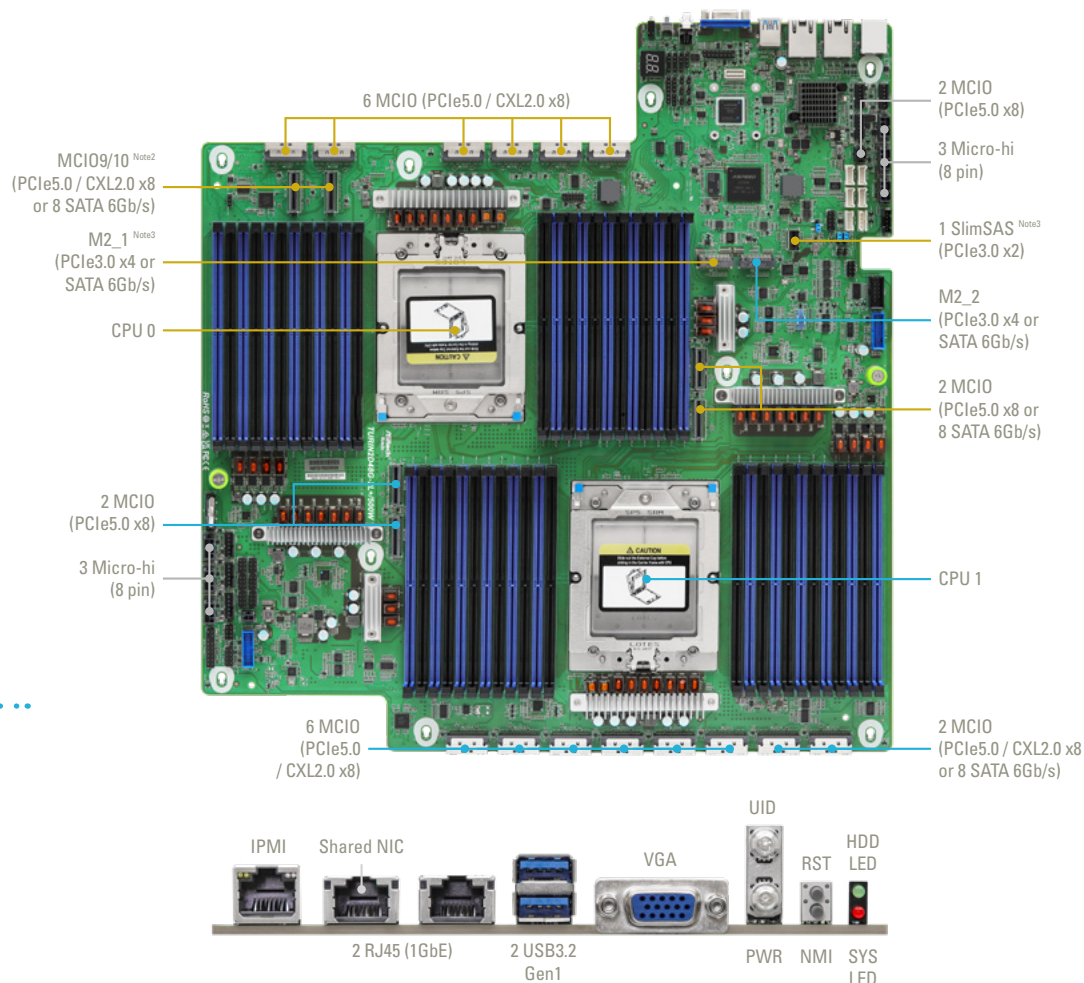
TURIN2D48G-2L+/500W



PCI-E 5.0



6400MHz



Application

- Software-defined application
- E-commerce
- HCI

Form Factor		Proprietary (18"x 16.9")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
	TDP	Up to 500W
Memory	Capacity	24+24 DDR5 DIMM Slots (2DPC); supports RDIMM up to 128GB each, max. 5200MHz (1DPC); max. 4400MHz (2DPC) RDIMM-3DS up to 256GB each, max. 5200MHz (1DPC); max. 4000MHz (2DPC)
Expansion	Others	6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU0] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note2} 2 MCIO (PCIe5.0 or 8 SATA 6Gb/s) [CPU0] 6 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note1} [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1] 1 SlimSAS (PCIe3.0 x2) [CPU0] ^{Note3}
Storage	M.2	2 M.2 (PCIe3.0 x4 or SATA 6Gb/s), support 22110/2280 form factor [CPU0]
	SATA port	32 SATA 6Gb/s: 4 MCIO 2 SATA 6Gb/s by ASM1061R: 2 M.2
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	6 USB3.2 Gen1 ports: 2 rear Type-A, 4 via 19-pin headers
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Supports CXL1.1 while installing AMD EPYC™ 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note2: MCIO9, 10 support PCIe only while installing 2 processors

Note3: SlimSAS (by jumper setting):

- PCIe3.0 x2 when M2_1 supports only PCIe3.0 x2 or SATA 6Gb/s
- No function when M2_1 supports PCIe3.0 x4 or SATA 6Gb/s

GENOA2D16NQM3-2Q



PCI-E 5.0



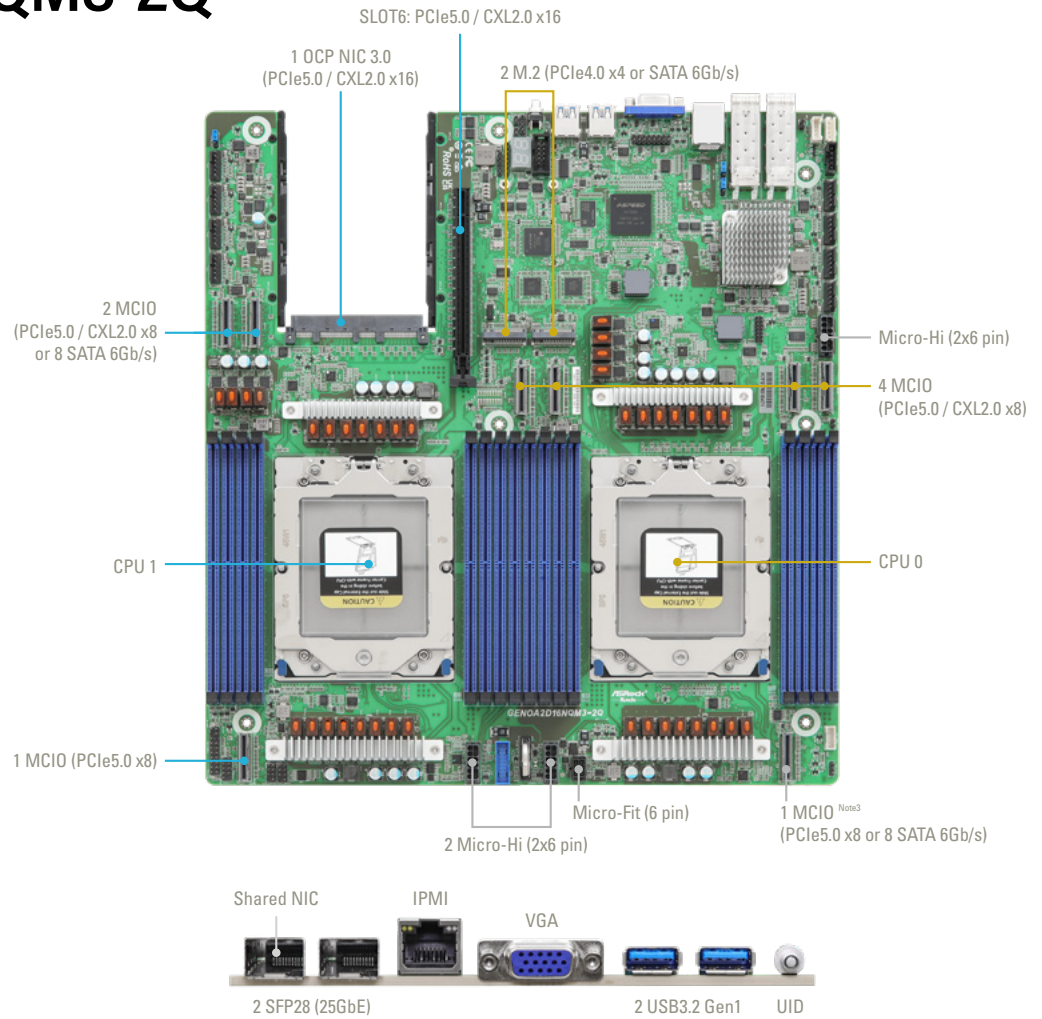
OCP NIC 3.0



SFP28

Application

- Software-defined application
- HCI



Form Factor		EEB (12.82" X 14") ^{Note1}
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	FCH	System on chip
Memory	Capacity	8+8 DDR5 DIMM Slots (1DPC); supports RDIMM, RDIMM-3DS RDIMM: up to 128GB, max. 4800MHz; 3DS RDIMM: up to 256GB, max. 4800MHz
Expansion	PCIe slot	SLOT6: PCIe5.0 / CXL2.0 x16 ^{Note2} [CPU1]
	Others	4 MCIO (PCIe5.0 / CXL2.0 x8) ^{Note2} [CPU0] 1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] ^{Note3} 2 MCIO (PCIe5.0 / CXL2.0 x8 or 8 SATA 6Gb/s) ^{Note2} [CPU1] 1 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	2 M-key (PCIe4.0 x4 or SATA 6Gb/s), support 2280 form factor [CPU0]
	SATA port	Up to 18 SATA 6 Gb/s: 2 MCIO, 2 M.2
Network	SFP28	2 SFP28 (25GbE) by Broadcom BCM57414
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 / CXL2.0 x16) ^{Note2} [CPU1]
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 [CPU1]
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Extend 10.1mm left and 10.7mm right

Note2: Supports CXL1.1 while installing AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors

Note3: MCIO from CPU0 support PCIe only while installing 2 processors

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.



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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.



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