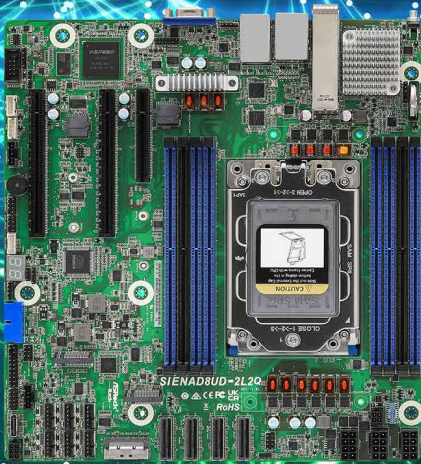
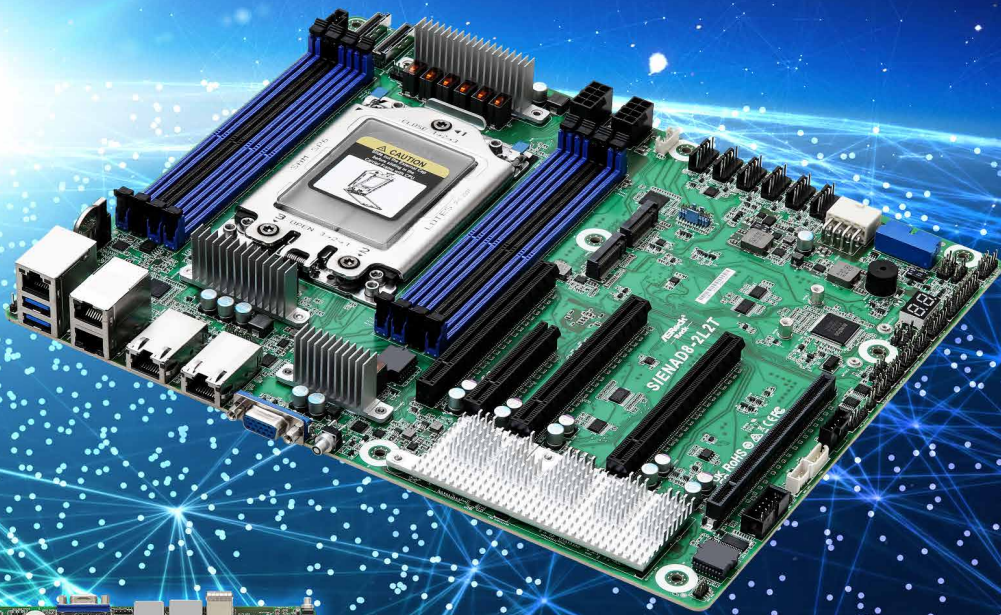


AMD EPYC™ 8004 Processors

Purpose-built and Energy-efficient

Server Motherboards

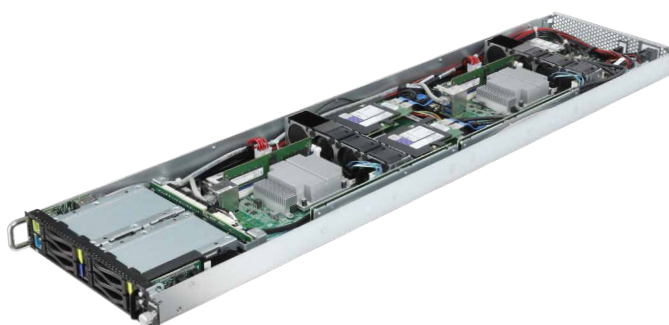


About ASRock Rack

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

Barebones Series

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

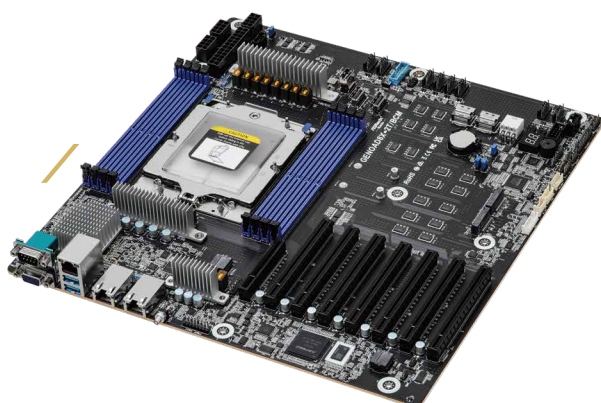
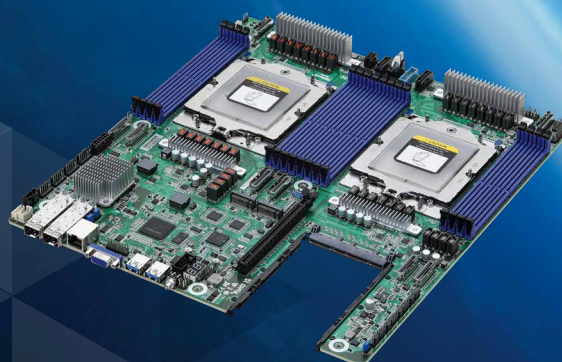


OPEN 19

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

Server Motherboards

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



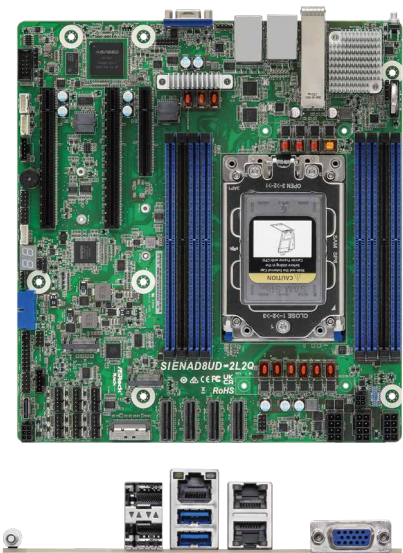
Workstation Motherboards

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

SIENAD8UD-2L2Q

Compact Server Board Equipped with 25GbE and 1GbE Networking

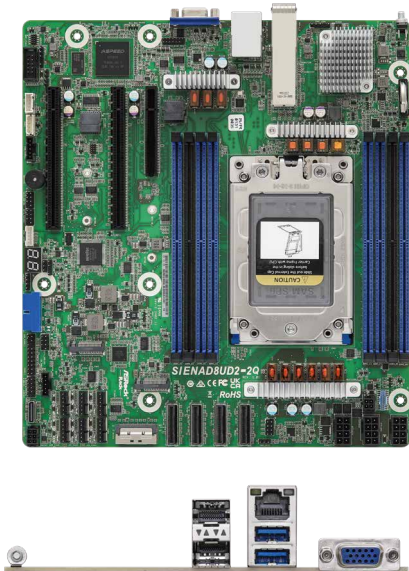
Power source		Supports ATX PSU and 12V DC-in
Form Factor		Deep Micro-ATX (9.6" x 10.5")
Processor System	CPU	1 Socket SP6 (SM-LGA-4844) AMD EPYC 8004 Processors
	FCH	System on chip
Memory	Capacity	8 DDR5 288-pin DIMM Slots (2DPC/1DPC); Supports RDIMM, max. 4800MHz
Expansion	PCIe slot	SLOT7: FL PCIe5.0 / CXL1.1 x8 SLOT6: FL PCIe5.0 / CXL1.1 x16 SLOT4: HL PCIe5.0 / CXL1.1 x16
	Others	3 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 1 OCuLink (PCIe3.0 x4)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	16 SATA 6Gb/s: 2 MCIO
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
	SFP28	2 SFP28 (25GbE) by Broadcom BCM57414
	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



SIENAD8UD2-2Q

Compact Server Board Equipped with 25GbE Networking

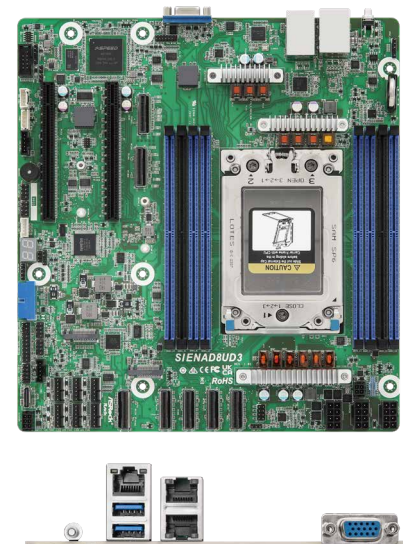
Power source		Supports ATX PSU and 12V DC-in
Form Factor		Deep Micro-ATX (9.6" x 10.5")
Processor System	CPU	1 Socket SP6 (SM-LGA-4844) AMD EPYC 8004 Processors
	FCH	System on chip
Memory	Capacity	8 DDR5 288-pin DIMM Slots (2DPC/1DPC); Supports RDIMM, max. 4800MHz
Expansion	PCIe slot	SLOT7: FL PCIe5.0 / CXL1.1 x8 SLOT6: FL PCIe5.0 / CXL1.1 x16 SLOT4: HL PCIe5.0 / CXL1.1 x16
	Others	3 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 1 OCuLink (PCIe3.0 x4)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	16 SATA 6Gb/s: 2 MCIO
Network	SFP28	2 SFP28 (25GbE) by Broadcom BCM57502
	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



SIENAD8UD3

Compact Server Board Supporting up to 32 SATA for Storage

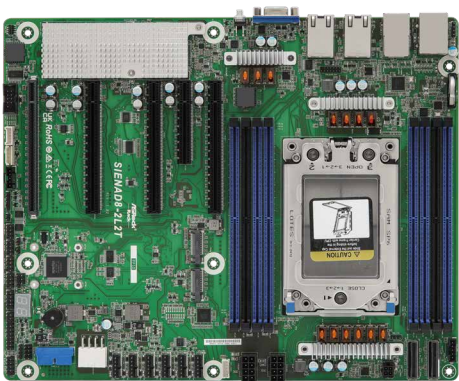
Power source		Supports ATX PSU and 12V DC-in
Form Factor		Deep Micro-ATX (9.6" x 10.5")
Processor System	CPU	1 Socket SP6 (SM-LGA-4844) AMD EPYC 8004 Processors
	FCH	System on chip
Memory	Capacity	8 DDR5 288-pin DIMM Slots (2DPC/1DPC); Supports RDIMM, max. 4800MHz
Expansion	PCIe slot	SLOT6: FL PCIe5.0 / CXL1.1 x16 SLOT4: HL PCIe5.0 / CXL1.1 x16
	Others	3 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 2 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA 6Gb/s) 1 OCuLink (PCIe3.0 x4)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	32 SATA 6Gb/s: 4 MCIO
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
	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



SIENAD8-2L2T

Intensive I/O Expansions Board Come with Dual 10GbE Networking

Form Factor		ATX (12" x 9.6")
Processor System	CPU	1 Socket SP6 (SM-LGA-4844) AMD EPYC 8004 Processors
	FCH	System on chip
Memory	Capacity	8 DDR5 288-pin DIMM Slots (2DPC/1DPC); Supports RDIMM, max. 4800MHz
Expansion	PCIe slot	SLOT7: PCIe5.0 / CXL1.1 x16
		SLOT6: PCIe5.0 x8
		SLOT5: PCIe5.0 / CXL1.1 x16
		SLOT3: PCIe5.0 x16
		SLOT1: PCIe5.0 / CXL1.1 x16
	Others	2 MCIO (PCIe5.0 x8)
Storage	M.2	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
Network	RJ45	2 RJ45 (1GbE) by Intel® i210 2 RJ45 (10GbE) by Intel® X710-AT2
	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



SIENAD10HM3

3 OCP NIC 3.0 Slots Powered by Single EPYC8004 Half-width Board

Form Factor		Half-Width (6.6" x 17")
Processor System	CPU	1 Socket SP6 (SM-LGA-4844) AMD EPYC 8004 Processors
	FCH	System on chip
Memory	Capacity	10 DDR5 288-pin DIMM Slots (2DPC/1DPC); Supports RDIMM, max. 4800MHz
Expansion	PCIe slot	SLOT2: Slim cool edge (PCIe5.0 x16) SLOT1: Slim cool edge (PCIe5.0 x16)
		1 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA 6Gb/s) OCuLink1 (2 SATA 6Gb/s) OCuLink2 (PCIe3.0 x4)
	Others	
Storage	M.2	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	Up to 10 SATA 6Gb/s: 1 MCIO, 2 M.2 2 SATA 6Gb/s by ASM1061R: OCuLink1
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16) 2 OCP NIC 3.0 (PCIe5.0 / CXL1.1 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

3U16L2S-SIENA

3U Storage Server Purpose-built for Data-intensive Workloads

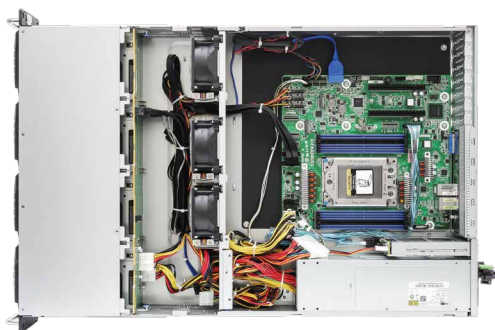
CPU	Socket	1 Socket SP6 (LGA 4844) AMD EPYC™ 8004 series processors
DIMM	Slot	8 DIMM slots (2DPC/1DPC)
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	680 x 430 x 133 mm (26.7" x 16.9" x 5.2")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	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	Front	2 FHHL PCIe5.0 x16
Drive Bay/ Storage	External	Front: 16 Hot-swap 3.5" SATA drive bays Rear: 2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CPSU
System Cooling	Fan	3 PWM Hot-swap 80x38 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory



2U12L2S-SIENA

2U Storage Server Purpose-built for Data-intensive Workloads

CPU	Socket	1 Socket SP6 (LGA 4844) AMD EPYC™ 8004 series processors
DIMM	Slot	8 DIMM slots (2DPC/1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	680 x 430 x 88 mm (26.7" x 16.9" x 3.5")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	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	Front	2 HHHL PCIe5.0 x16
Drive Bay/ Storage	External	Front: 12 Hot-swap 3.5" SATA drive bays Rear: 2 Hot-swap 2.5" SATA drive bays, supports 7mm height
	Internal	2 M-key (PCIe5.0 x4), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CPSU
System Cooling	Fan	3 PWM Hot-swap 80x38 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory



2U4N-F/SIENA-M3

2U 4-Node Front I/O Server for High-density Cloud Deployments

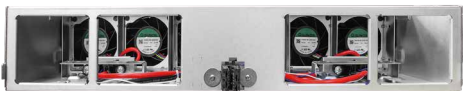
CPU (per node)	Socket	1 Socket SP6 (LGA 4844) AMD EPYC™ 8004 series processors
DIMM (per node)	Slot	10 DIMM slots (2DPC/1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	750 x 438 x 86.6mm (29.5" x 17.2" x 3.4")
Front Panel (per node)	Buttons	Power On/Standby button, System reset button
	LEDs	HDD Act/Err/Locate LED, Power LED, UID LED
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO (per node)	RJ45	1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 UID button w/ LED, 1 mini-DisplayPort
Expansions Slots (per node)	Rear	2 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/Storage (per node)	External	Front 2 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays 2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 2700W CRPS
System Cooling (per node)	Fan	4 Hot-swap dual-rotor 40x56 mm fans
Management (per node)		ASPEED BMC AST2600
Security (per node)		TPM by optional accessory



20U3N-SIENA

Extreme Power Efficiency 20U 3-Node OCP Server Built for Data Centers

CPU (per sled)	Socket	1 Socket SP6 (LGA 4844) AMD EPYC™ 8004 series processors
DIMM (per sled)	Slot	10 DIMM slots (2DPC/1DPC)
System Physical Status	Form Factor	20U, Three-bay Shelf for ORv3
	Chassis Dimension	573 x 800 x 88 mm (22.56" x 31.5" x 3.5", Shelf Dimensions)
Front Panel (per sled)	Buttons	Power, UID button w/ LED, reset button
	LEDs	Power, system fault LED
	I/O	1 Mini-DisplayPort (VGA), 2 Type-A (USB3.2 Gen1)
Rear Panel	Power connector	1 IT Gear connector for ORv3 50V busbar
Expansions Slots (per sled)	External	1 HHHL 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 bay
	Internal	2 M-key (PCIe5.0 x4 or SATA 6Gb/s), supports 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)		ASPEED BMC AST2600
Security (per sled)		TPM by optional accessory





Reliable Server
Advancing Technology
Considerable Design
Knowledgeable Professional

ASRock Rack Incorporation

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