



# All Purpose Power AMD Platform Solutions

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

# Server Platform Naming Rule

## GENOA2D16NQM3-2Q

Character	Representation	Options
N	CPU Type	<ul style="list-style-type: none"><li>GENOA = AMD EPYC™ 9004 series processors</li></ul>
N+1	Number of CPU Supported	<ul style="list-style-type: none"><li>2 = Dual</li><li>NA = Single</li></ul>
Others	Number of DIMM Supported	<ul style="list-style-type: none"><li>D8 = 8 DIMM</li><li>D12 = 12 DIMM</li><li>D16 = 16 DIMM</li><li>D24 = 24 DIMM</li></ul>
	Form Factor	<ul style="list-style-type: none"><li>H = Half-width</li><li>UD = Deep Micro-ATX (10.4"x10.5")</li><li>T = T-shape</li></ul>
	Feature	<ul style="list-style-type: none"><li>N = Non-shading side-by-side CPU</li><li>G = For GPU server</li><li>Q = OCP slot not in standard I/O area, multi-SlimSAS to the front</li><li>M3 = OCP NIC 3.0 slot</li><li>2Q = Dual 25GbE SFP28 by Broadcom BCM57414</li><li>2T = Dual 10GbE RJ45 by Intel X710</li><li>2T/X550 = Dual 10GbE RJ45 by Intel X550</li><li>2T/BCM = Dual 10GbE RJ45 by Broadcom BCM57416</li><li>2L = Dual 1GbE RJ45 by Intel i210</li><li>2L+ = Dual 1GbE RJ45 by Intel i350</li></ul>

## 1U4L4E-GENOA/2T

Character	Representation	Options
1 <sup>st</sup> + 2 <sup>nd</sup>	System Height	<ul style="list-style-type: none"><li>1U = 1U chassis</li><li>2U = 2U chassis</li><li>4U = 4U chassis</li></ul>
Others	Drive Bay	<ul style="list-style-type: none"><li>L = 3.5" HDD Bay</li><li>S = 2.5" HDD/SSD Bay</li><li>E = U.2 Bay</li><li>E1S = E1.S Bay</li></ul>
	Feature	<ul style="list-style-type: none"><li>G = Dual-slot cards supported</li><li>X = NVIDIA HGX platform intergrated</li><li>N = Number of nodes</li><li>F = Front I/O</li></ul>

# 1U4LW-B650/2L2T

## 1U4LW-B650

General Purpose Server Equipped with Dual 10GbE  
Powered by AMD Ryzen 7000 Series Processors



		1U4LW-B650/2L2T	1U4LW-B650
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors	
	TDP	Up to 105W	
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System Physical	Form Factor	1U Rackmount	
Status	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	
Front Panel	Buttons	Power w/ LED, UID w/LED, System reset	
	LEDs	LANs, HDD activity, System health	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	4 Type-A (USB3.2 Gen1)	
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI	
Expansion Slots	Rear	1 FH PCIe4.0 x16 via RB1UX16_G4 (Up to 75W)	
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays	
Storage	Internal	M2_1 (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	M2_1 (PCIe5.0 x4), supports 2280/2242 form factor [CPU] M2_2 (PCIe4.0 x4), supports 2280/2242 form factor [FCH]
Power Supply	Module	1, 80-PLUS Platinum, 400W PSU	
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	



# 1U2S-B650

1U Ryzen 7000 Series General Purpose Server  
For Small and Medium-sized Business



CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors	
	TDP	Up to 105W	
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System Physical	Form Factor	1U Rackmount	
Status	Chassis Dimension	393.2 x 430 x 43.5 mm (15.5" x 16.93" x 1.71")	
Front Panel	Buttons	Power, System Reset	
	LEDs	Power, HDD Activity, LANs, System Event	
	I/O	2 Type-A (USB3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	
	USB	4 Type-A (USB3.2 Gen1)	
	Others	1 UID button w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI	
Expansion Slots	Rear	1 FHHL PCIe4.0 x16 via RB1UX16_G4 (Up to 75W)	
Drive Bay/	External	2 hot-swap 2.5" SATA drive bays	
Storage	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD	
		M2_1 (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	
		M2_2 (PCIe4.0 x4), supports 2280/2242 form factor [FCH]	
Power Supply	Module	1, 80-PLUS Gold, 315W PSU	
System Cooling	Fan	3 PWM Hot-swap 40x56 mm fans	
		1 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	





# B650D4U-2L2T/BCM

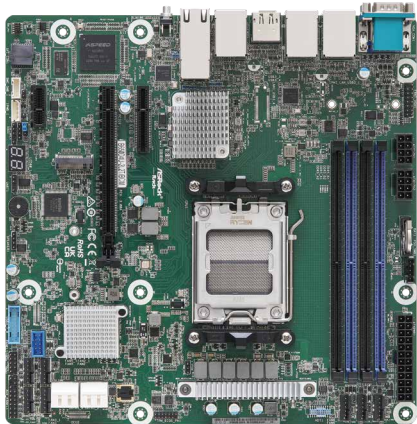
## B650D4U

Ryzen 7000 Series General Purpose Server Board  
Equipped with Greater Dual 10GbE Networking



		B650D4U-2L2T/BCM	B650D4U
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System	CPU	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series Processors	
	FCH	AMD B650E chipset	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5200MHz	
Expansion	PCIe slot	SLOT7: PCIe5.0 x4 [CPU] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x1 [FCH]	
	Others	OCuLink1 (PCIe4.0 x4) <sup>Note1</sup> [CPU] OCuLink2 (PCIe3.0 x4 or 4 SATA 6Gb/s) <sup>Note2</sup> [FCH]	
Storage	M.2	M2_1 <sup>Note1</sup> (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	M2_1 <sup>Note1</sup> (PCIe5.0 x4), supports 2280/2242 form factor [CPU] M2_2 <sup>Note3</sup> (PCIe4.0 x4), supports 2280/2242 form factor [FCH]
	SATA port	4 SATA 6Gb/s: 4 SATA 7-pin or 1 OcuLink <sup>Note2</sup>	
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210	2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	6 USB3.2 Gen1 ports: 4 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA), 1 (15-pin) header, 1 DisplayPort, 1 HDMI	
Security	TPM	Supports 13-pin (SPI) TPM modules	

Note1: M2\_1 share lanes with OcuLink1, OcuLink1 support possible by depopulating M2\_1 and other BOM change  
Note2: 4 SATA 7-pin share lanes with OcuLink2, OcuLink2 support possible by depopulating 4 SATA 7-pin and other BOM change  
Note3: M2\_2 only available on B650D4U SKU



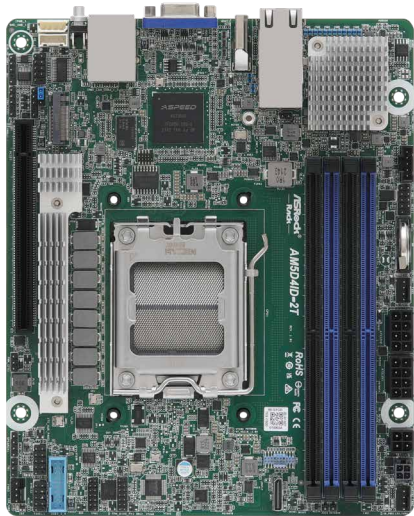
# AM5D4ID-2T/BCM

## AM5D4ID/BCM

Ryzen 7000 Series Compact Motherboard  
For Small Form Factor Applications



		AM5D4ID-2T/BCM	AM5D4ID/BCM
Power Source		Support ATX PSU and 12V DC-in	
Form Factor		Deep mini-ITX (6.7" x 8.2")	
Processor System	CPU	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series Processors	
	Chipset	KNOLL3 X300	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5200MHz	
Expansion	PCIe slot	SLOT7: PCIe5.0 x16 [CPU]	
	Others	1 OcuLink (PCIe4.0 x2) [CPU]	
Storage	M.2	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU]	
Network	RJ45	2 RJ45 (10GbE) by BCM57416	2 RJ45 (1GbE) by BCM5720L
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 HDMI	
Security	TPM	Supports 13-pin (SPI) TPM modules	



# 1U2E-X570

General Purpose Server Equipped with  
2 NVMe Drive Bays



CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	393.2 x 430 x 43.5 mm (15.5" x 16.93" x 1.71")
Front Panel	Buttons	Power, System Reset
	LEDs	Power, HDD Activity, LAN 1/2, System Event
	I/O	2 USB3.0 ports
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 USB3.2 Gen2 ports
	Others	1 DB15 (VGA), 1 DB9 (COM), HDMI
Expansion Slots	Rear	N/A
Drive Bay/ Storage	External	2 x 2.5" SATA/NVMe (PCIe4.0 <sup>Note1</sup> x4) drive bays
	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD (optional) 1 M-key (PCIe4.0 <sup>Note1</sup> x4 or SATA 6Gb/s); support 22110/2280/2260/2242 form factor [CPU] 1 M-key (PCIe4.0 <sup>Note1</sup> x4 or SATA 6Gb/s); support 2280/2260/2242 form factor [FCH]
Power Supply	Module	1 Gold 315W PSU
System Cooling	Fan	4 PWM Hot-Swap 40x28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

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



# 1U2-X570/2T

Ultra Compact 1U Server Supporting  
up to 4 Drives Bays



CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	250mm x 430mm x 43.5mm (9.84" x 16.93" x 1.71")
Front Panel	Buttons	Power switch, System Reset
	LEDs	Power status, HDD, LAN activity LEDs
	I/O	1 DB15 (VGA), 2 Type-A (USB3.2 Gen1), 2 Type-A (USB3.2 Gen2), 2 RJ45 (10GbE) by Intel® X550-AT2, 1 UID w/ LED, 1 dedicated IPMI
Expansion Slots	Rear	1 FH PCIe4.0 x16 <sup>Note1</sup>
Drive Bay/ Storage	Internal	2 fixed 3.5" SATA drive bays 1 fixed 2.5" SATA drive bay 1 fixed 2.5" NVMe (PCIe4.0 <sup>Note2</sup> x4) drive bay 1 M-key (PCIe4.0 <sup>Note2</sup> x4 or SATA 6Gb/s); support 2280 form factor [CPU]
Power Supply	Module	1 Bronze 265W PSU
System Cooling	Fan	3 PWM Easy-swap 40x28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

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

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



# 1U2LW-X570/2L2T

## 1U2LW-X570

1U 2-Bay Barebone for  
Small and Medium-sized Business



		1U2LW-X570/2L2T	1U2LW-X570
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors	
DIMM	Slot	4 DDR4 288-pin (2DPC)	
System Physical	Form Factor	1U Rackmount	
Status	Chassis Dimension	394 x 482.6 x 44.4 mm (15.5" x 19" x 1.75")	
Front Panel	Buttons	Power Switch, System Reset	
	LEDs	Power Status, HDD, LAN Activity LEDs	
	I/O	2 Type-A (USB 3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen2)	
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM)	
Expansion Slots	Rear	1 FHHL PCIe4.0 x16 <sup>Note1</sup> via RB1UX16_G4	
Drive Bay/ Storage	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD	
		1 fixed 3.5"/2.5" SATA drive bay	
		1 M-key (PCIe4.0 <sup>Note2</sup> x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU] 1 M-key (PCIe4.0 <sup>Note2</sup> x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]	
Power Supply	Module	1 Gold 315W PSU	
System Cooling	Fan	3 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2500	
Security		TPM by optional accessory	

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

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

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



# 1U2LW-X470

1U General Purpose Server for  
Small and Medium-sized Business



CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
System Physical	Form Factor	1U Rackmount
Status	Chassis Dimension	394 x 482.6 x 44.4 mm (15.5" x 19" x 1.75")
Front Panel	Buttons	Power switch, System reset
	LEDs	Power status, HDD, LAN activity LEDs
	I/O	2 USB3.2 Gen1 ports
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210AT 1 dedicated IPMI
	USB	2 USB3.2 Gen1 ports
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	1 FH PCIe3.0 x16 <sup>Note1</sup>
Drive Bay/ Storage	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD
		1 fixed 3.5"/2.5" SATA drive bay
		1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH] 1 M-key (PCIe2.0 x4), supports 22110/2280/2260/2242 form factor [FCH]
Power Supply	Module	1 Gold 315W PSU
System Cooling	Fan	3 PWM Hot-swap 40x28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

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





# 1U4LW-X570/2L2T RPSU

## 1U4LW-X570 RPSU

AMD Ryzen General Purpose Server  
Equipped with Dual 10GbE



		1U4LW-X570/2L2T RPSU	1U4LW-X570 RPSU	1U4LW-X570/2L2T	1U4LW-X570
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors			
DIMM	Slot	4 DDR4 288-pin (2DPC)			
System Physical	Form Factor	1U Rackmount			
Status	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")			
Front Panel	Buttons	Power button w/ LED, UID w/LED, System reset			
	LEDs	LANs, HDD activity, System health			
	I/O	2 USB 3.2 Gen1 ports			
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	2 RJ45 (10GbE) by Intel® X550-AT2 2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI	2 RJ45 (1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 USB3.2 Gen2 ports			
	Others	1 UID, 1 DB15 (VGA), 1 DB9 (COM)			
Expansion Slots	Rear	1 FH PCIe4.0 x16 <sup>Note1</sup>			
Drive Bay/ Storage	External	4 Hot-swap 3.5" SATA drive bays [Front]			
	Internal	3 fixed 2.5" SATA drive bays or 2 fixed 2.5" SATA drive bays, 1 Slim ODD			
		1 M-key (PCIe4.0 <sup>Note2</sup> x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU] 1 M-key (PCIe4.0 <sup>Note2</sup> x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]			
Power Supply	Module	1+1 450W RPSU		1 Gold 400W PSU	
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans			
Management		ASPEED BMC AST2500			
Security		TPM by optional accessory			

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

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

# 1U4LW-X470 RPSU

## 1U4LW-X470

1U 4-Bay General Purpose Server for  
Small and Medium-sized Business



		1U4LW-X470 RPSU	1U4LW-X470
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors	
DIMM	Slot	4 DDR4 288-pin (2DPC)	
System Physical	Form Factor	1U Rackmount	
Status	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	
Front Panel	Buttons	Power button w/ LED, UID w/LED, System reset, NMI	
	LEDs	LANs, HDD activity, System Fail activity LEDs	
	I/O	2 USB 3.2 Gen1 ports	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210AT 1 dedicated IPMI	
	USB	2 USB3.2 Gen1 ports	
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM)	
Expansion Slots	Rear	1 FH PCIe3.0 x16 <sup>Note1</sup>	
Drive Bay/ Storage	External	4 Hot-swap 3.5" SATA drive bays [Front]	
	Internal	3 fixed 2.5" SATA drive bays or 2 fixed 2.5" SATA drive bays, 1 Slim ODD 1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH] 1 M-key (PCIe2.0 x4), supports 22110/2280/2260/2242 form factor [FCH]	
Power Supply	Module	1+1 300W RPSU	1 Gold 400W PSU
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2500	
Security		TPM by optional accessory	

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

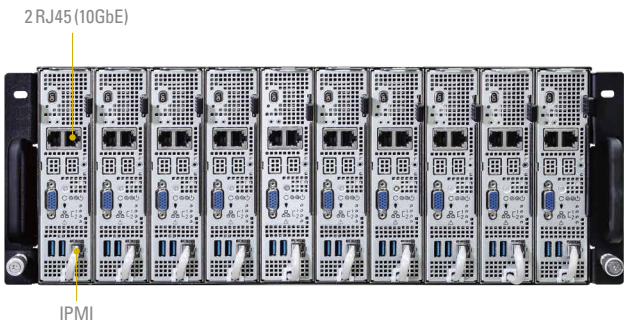
# 4U18N-B550/2T

## 4U18N-B550

4U Highest-density Multi-Node Server



2 fixed 2.5" NVMe/SATA drive bays



2 RJ45 (10GbE)

IPMI



3+1 1600W CRPS

4U18N-B550/2T		4U18N-B550	
CPU (per node)	Socket	1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series desktop processors	
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)	
System Physical	Form Factor	4U Rackmount	
Status	Chassis Dimension	950 x 438 x 176 mm	
Front Panel (per node)	Buttons	UID , Power , RESET	
	LEDs	System Fail, LAN1/LAN2, UID, Power	
	RJ45	2 RJ45(10GbE) by Intel® X710-AT2 1 dedicated IPMI	2 RJ45(1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 Type-A (USB 3.2 Gen1)	
	VGA	1 DB15	
Storage (per node)	Internal	2 fixed 2.5" NVMe (PCIe4.0 <sup>Note1</sup> x4)/SATA drive bays (BTO) 1 M-key (PCIe4.0 <sup>Note1</sup> x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU] 1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 2280 form factor [FCH]	
Power Supply	Module	3+1 1600W CRPS	
System Cooling	Fan	5 PWM hot-swap 80x80 mm fans	
Management (per node)		ASPEED BMC AST2500	
Security (per node)		TPM by optional accessory	

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

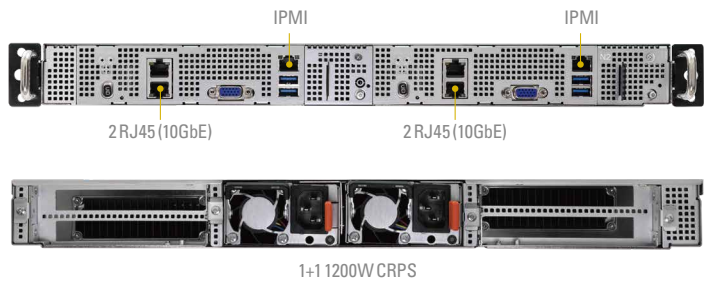
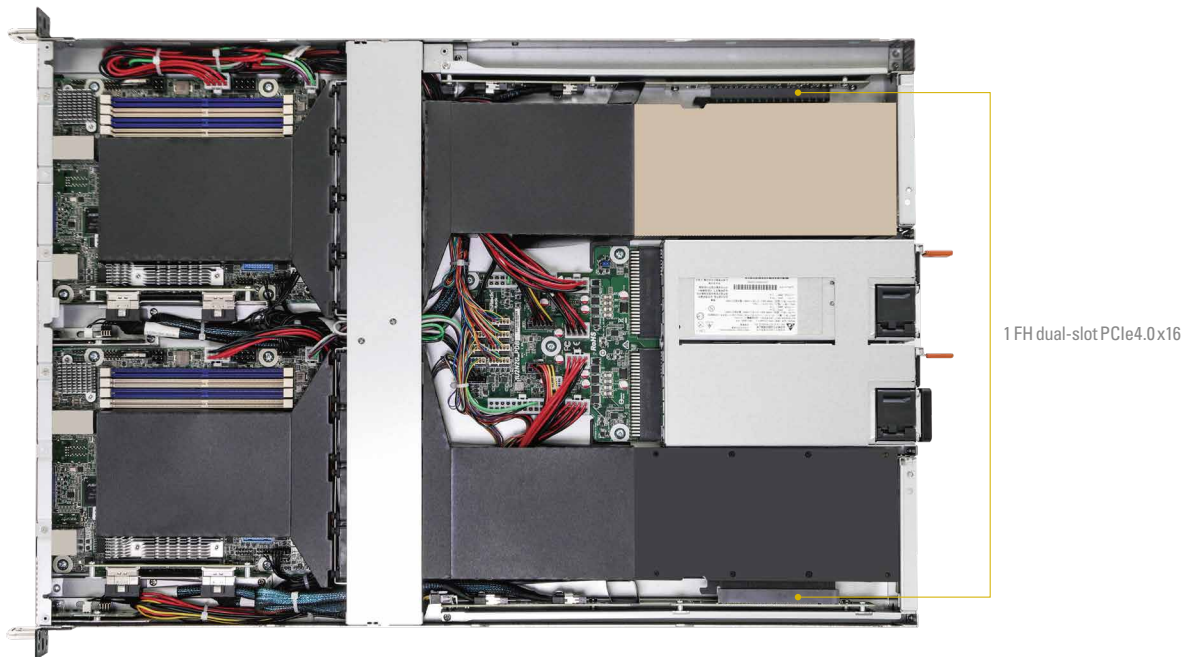


1U2N2G-B550/2T

1U2N2G-B550

Density-optimized 1U 2 Node

GPU Server



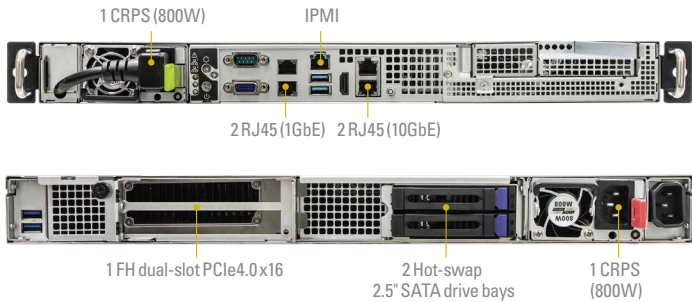
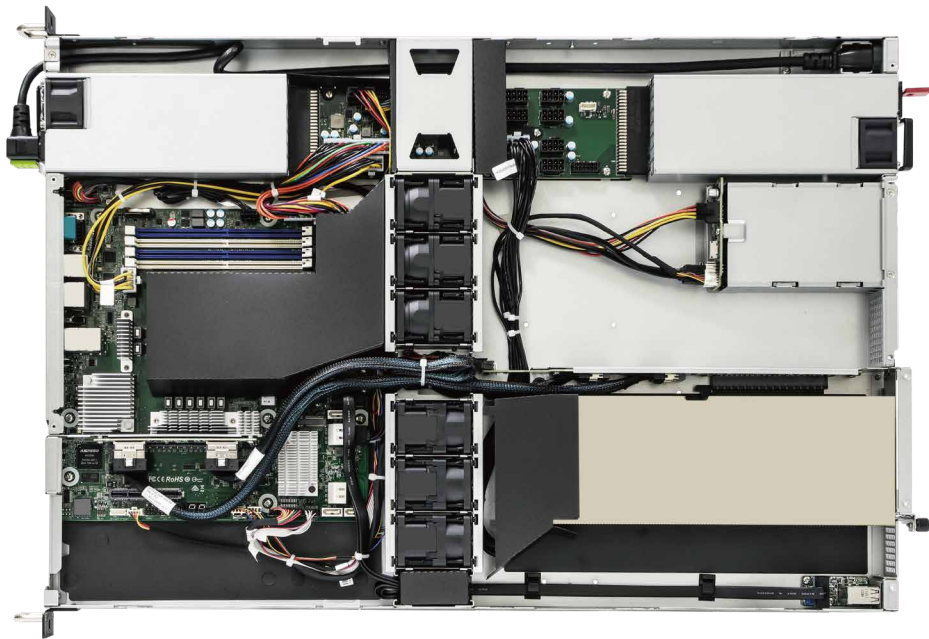
1U2N2G-B550/2T		1U2N2G-B550
CPU (per node)	Socket	1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series desktop processors
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)
System Physical	Form Factor	1U Rackmount
Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel (per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

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

# 1U1G-X570/2L2T

## 1U1G-X570

AMD Ryzen Short-depth 1U GPU Server  
for Edge Deployment



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

**Note1:** Supports PCIe3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics  
Supports PCIe3.0 x16 when using AMD Ryzen 4000G Series Processors with Radeon Graphics  
**Note2:** Supports PCIe3.0 when using AMD Ryzen 4000G and 3000G Series Processors with Radeon Graphics

# X570D4U-2L2T

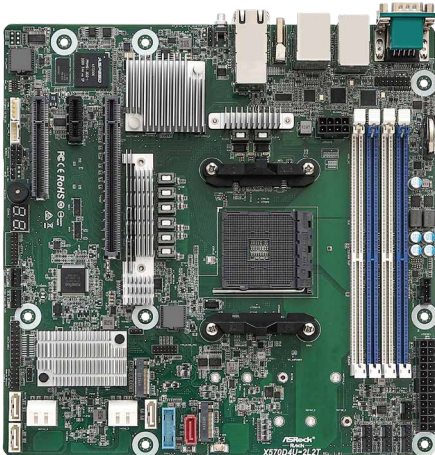
## X570D4U

PCIe4.0 Ryzen Server Motherboard  
with Dual 10GbE and IPMI



	X570D4U-2L2T	X570D4U
Form Factor	Micro-ATX (9.6" x 9.6")	
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 Series Desktop Processors
	FCH	AMD X570
	Memory	Capacity 4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note1</sup> /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe4.0 x16 <sup>Note2</sup> , SLOT5: PCIe4.0 x1 <sup>Note3</sup> , SLOT4: PCIe4.0 x8 <sup>Note4</sup>
Storage	M.2	1 M-key (PCIe4.0 <sup>Note4</sup> x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor
	SATA port	12 SATA 6Gb/s: 7 SATA 7-pin, 1 SATA DOM, 4 SATA via optional M2-HD M.2 device
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type A 2 USB3.2 Gen1 ports: 2 via 19-pin header
	Video	1 DB15(VGA), 1 (15-pin) header, 1 HDMI <sup>Note6</sup>
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules

Note1: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies.  
Note2: SLOT6 auto-switch to PCIe4.0 x8 when SLOT4 occupied.  
SLOT6 supports PCIe3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics and supports PCIe3.0 x8 only when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics.,  
Note3: SLOT5 and M.2 supports PCIe3.0 only when installing AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics  
Note4: SLOT4 supports PCIe3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics, and will not function when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics  
Note5: HDMI is only supported by AMD Ryzen™ with Radeon™ Graphics Processors



# B550D4U-2T

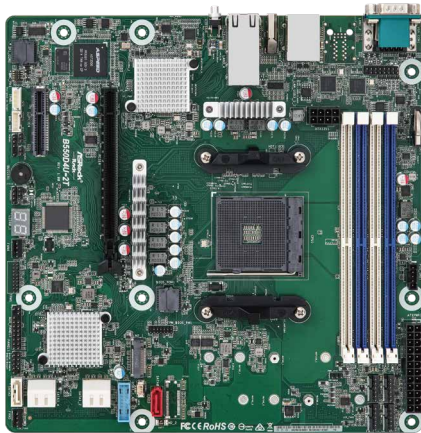
## B550D4U

General Purpose Server Board  
Equipped with Greater Dual 10GbE Networking



	B550D4U-2T	B550D4U
Form Factor	Micro-ATX (9.6" x 9.6")	
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 <sup>Note1</sup> Series Desktop Processors
	FCH	AMD B550
	Memory	Capacity 4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note2</sup> /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe4.0 x16 SLOT4: PCIe4.0 x4
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor
	SATA port	6 SATA 6Gb/s: 3 SATA 7-pin, 1 SATA DOM by AMD B550, 2 SATA 7-pin by ASM1061
Network	RJ45	2 RJ45 (10GbE) by Intel® X710 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header
	Video	1 DB15(VGA), 1 HDMI <sup>Note3</sup>
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules

Note1: Not compatible with AMD Ryzen™ 3000 series processors with Radeon™ Graphics  
Note2: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies  
Note3: HDMI is only supported by AMD Ryzen™ with Radeon™ Graphics Processors





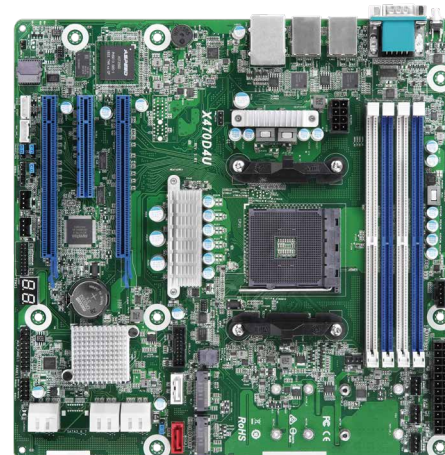
# X470D4U

Cost-efficient AMD Ryzen Network  
Server Solution



Form Factor		Micro-ITX (9.6" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 Series Desktop Processors
	FCH	AMD X470
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note1</sup> /UDIMMs up to 32GB each; max. 2666MHz
Expansion	PCIe slot	SLOT6: PCIe3.0 x16 <sup>Note2</sup> [CPU] SLOT5: PCIe x8 (PCIe3.0 x4) [CPU] SLOT4: PCIe x16 (PCIe3.0 x8) <sup>Note2</sup> [CPU]
Storage	M.2	1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH] 1 M-key (PCIe2.0 x4), supports 22110/2280/2260/2242 form factor [FCH]
	SATA port	8 SATA 6Gb/s: 5 SATA 7-pin, 1 SATA DOM by AMD X470, 2 SATA 7-pin by ASM1061
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header
	Video	1 DB15 (VGA)
Security	TPM	Supports 17-pin (LPC) TPM modules

Note1: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies.  
Note2: SLOT6 will auto-switch to PCIe3.0 x8 when SLOT4 is occupied, and SLOT4 will not function when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics



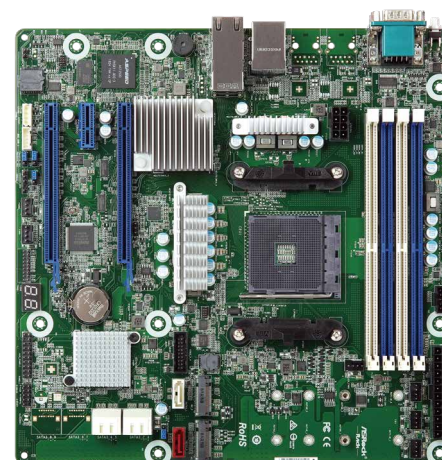
# X470D4U2-2T

AMD Ryzen Network Server  
with 10 Gb Ethernet Connectivity



Form Factor		Micro-ITX (9.6" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 Series Desktop Processors
	FCH	AMD X470
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note1</sup> /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe3.0 x16 <sup>Note2</sup> [CPU]
		SLOT5: PCIe2.0 x1 [FCH]
		SLOT4: PCIe x16 (PCIe3.0 x8) <sup>Note2</sup> [CPU]
Storage	M.2	1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH] 1 M-key (PCIe2.0 x4), supports 22110/2280/2260/2242 form factor [FCH]
	SATA port	6 SATA 6Gb/s: 5 SATA 7-pin, 1 SATA DOM
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header
	Video	1 DB15 (VGA)
Security	TPM	Supports 17-pin (LPC) TPM modules

Note1: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies.  
Note2: SLOT6 will auto-switch to PCIe3.0 x8 when SLOT4 is occupied, and SLOT4 will not function when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics



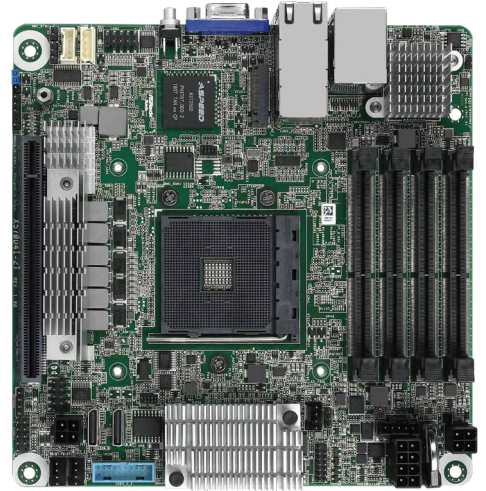
# X570D4I-2T

Ultra Compact Server Board  
Equipped with Dual 10GbE and IPMI



Power source		Supports ATX PSU or 12V DC-in
Form Factor		mini-ITX (6.7" x 6.7")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 Series Desktop Processors
	FCH	AMD X570
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note1</sup> /SODIMMs up to 32GB each; max. 2933MHz
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 <sup>Note2</sup>
	Others	2 OCuLink <sup>Note3</sup> (PCIe4.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key <sup>Note3</sup> (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type A 2 USB3.2 Gen1 ports: 2 via 19-pin header
	Video	1 DB15(VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies.  
Note2: SLOT7 supports PCIe3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics, and support PCIe3.0 x8 only when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics  
Note3: OCuLink and M.2 supports PCIe3.0 only when installing AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics



# B550D4ID-2L2T

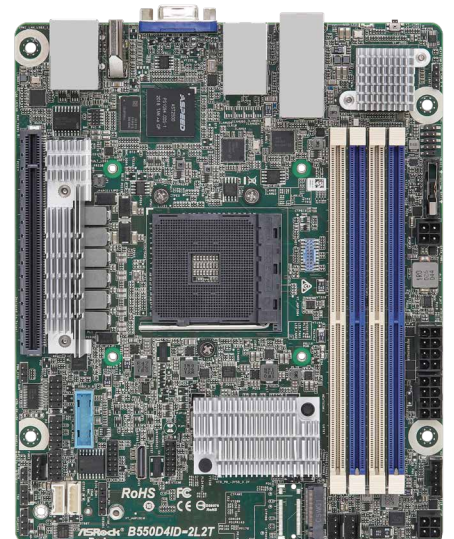
## B550D4ID

Compact Motherboard for  
Small Form Factor Applications



B550D4ID-2L2T		B550D4ID
Power source	Supports ATX PSU or 12V DC-in	
Form Factor	Deep mini-ITX (6.7" x 8.2")	
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 <sup>Note1</sup> Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note2</sup> /UDIMMs up to 32GB each; max. 3200MHz
	Expansion	PCIe slot
Storage	PCIe slot	SLOT7: PCIe4.0 x16
	M.2	1 M-key (PCIe4.0 <sup>Note3</sup> x4 or SATA 6Gb/s), supports 22110 (BTO) <sup>Note4</sup> /2280 form factor 1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 2280 form factor (BTO) <sup>Note5</sup>
Network	SATA port	4 SATA 6Gb/s: 1 OCuLink
	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header
	Video	1 DB15(VGA), 1 HDMI <sup>Note6</sup>
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules

Note1: Not compatible with AMD Ryzen™ 3000 series processors with Radeon™ Graphics  
Note2: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies  
Note3: Supports PCIe3.0 when installing AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics  
Note4: M2\_1 22110 form factor support is possible by depopulating BMC\_SMB and IPMB header and other BOM change  
Note5: M2\_2 support is possible by depopulating BMC\_SMB and IPMB header and other BOM change  
Note6: HDMI is only supported by AMD Ryzen™ with Radeon™ Graphics Processors





# B550D4M

Ryzen Server Board with  
Scalable Ethernet Design

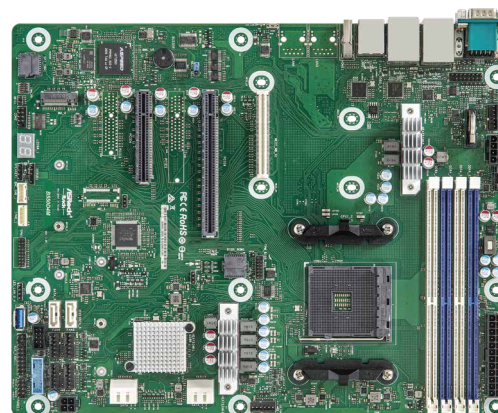


Form Factor		ATX (12" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 <sup>Note1</sup> Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note2</sup> /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe x16 (PCIe4.0 x8) [CPU] SLOT4: PCIe x8 (PCIe3.0 x4) [CPU]
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2242 form factor [FCH]
	SATA port	7 SATA 6Gb/s: 4 SATA 7-pin, 1 M.2 by AMD B550, 2 SATA 7-pin by ASM1061
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
	OCP	1 OCP 2.0 connector A (PCIe3.0 x8)
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type-A 5 USB3.2 Gen1 ports : 2 rear Type-A, 2 via 19-pin header, 1 via vertical Type-A 2 USB 2.0 ports : 2 via 9-pin header
	Video	1 DB15(VGA), 1 HDMI <sup>Note3</sup>
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules

Note1: Not compatible with AMD Ryzen™ PRO 3000 Series Desktop Processors with Radeon™ Graphics

Note2: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies

Note3: HDMI is only supported by AMD Ryzen™ with Radeon™ Graphics Processors



# B550D4-4L

Ryzen Server Board with Quad 1GbE Network

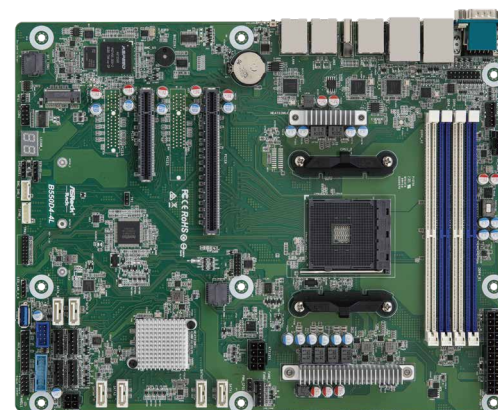


Form Factor		ATX (12" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 <sup>Note1</sup> Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC <sup>Note2</sup> /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe4.0 x16 SLOT4: PCIe4.0 x4
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s); support 22110/2280/2242 form factor
	SATA port	7 SATA 6Gb/s: 4 SATA 7-pin, 1 M.2 by AMD B550, 2 SATA 7-pin by ASM1061
Network	RJ45	4 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type-A, 5 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header, 1 vertical Type-A 2 USB2.0 ports: 2 via 9-pin header
		Video
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules

Note1: Not compatible with AMD Ryzen™ 3000 series processors with Radeon™ Graphics

Note2: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies

Note3: HDMI is only supported by AMD Ryzen™ with Radeon™ Graphics Processors





# 1U4L4E-GENOA/2T



1U/2U High  
Density Storage



10Gbase-T



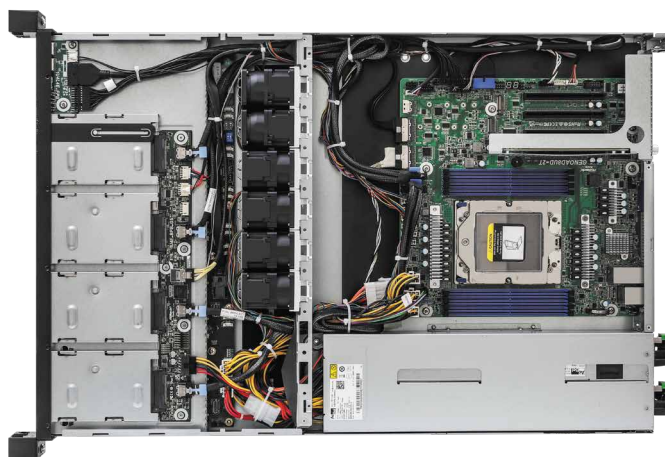
Storage



4800

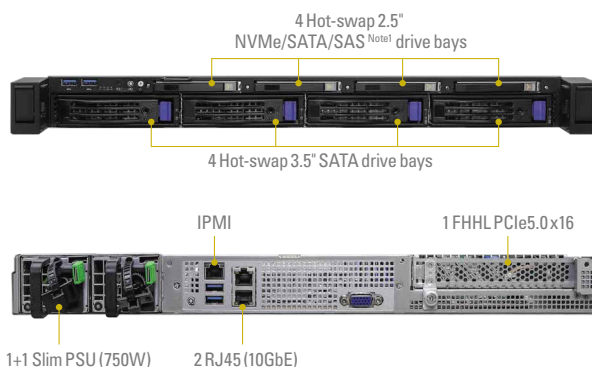


PCI-E 5.0



## Application

- Hybrid-storage Server
- Cloud Computing
- Enterprise Server



## 1U4L4E-GENOA/2T

CPU	Socket	1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 288-pin (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
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
	Expansion Slots	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
Drive Bay/ Storage	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS <sup>Note1</sup> drive bays 4 hot-swap 3.5" SATA drive bays
	Internal	2 M-key (PCIe4.0 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		ASPEED BMC AST2600
Security		TPM by optional accessory

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

# 1U4L-GENOA/2T



1U/2U High  
Density Storage



10Gbase-T



Storage



4800

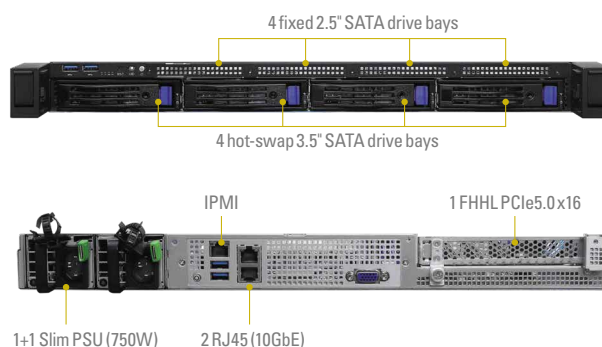


PCI-E 5.0



## Application

- Enterprise Server
- General Purpose Server
- Web Hosting



## 1U4L-GENOA/2T

CPU	Socket	1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 300W
DIMM	Slot	8 DDR5 288-pin (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
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
	USB	1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1)
		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 (PCIe4.0 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		ASPEED BMC AST2600
Security		TPM by optional accessory

# 1U8S4E-GENOA/2T



1U/2U High  
Density Storage



10GbE-T



Storage



4800

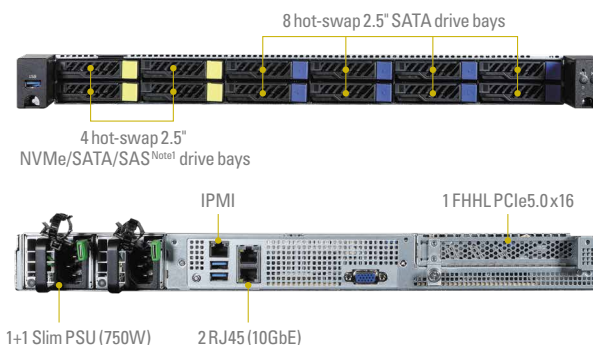


PCI-E 5.0



## Application

- Hybrid-storage Server
- Enterprise Server



## 1U8S4E-GENOA/2T

<b>CPU</b>	Socket	1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 300W
<b>DIMM</b>	Slot	8 DDR5 288-pin (1DPC)
<b>System Physical Status</b>	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
<b>Front Panel</b>	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	1 Type-A (USB3.2 Gen1)
<b>Rear IO</b>	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
	USB	1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1)
		1 DB15 (VGA), 1 UID button w/ LED
<b>Expansion Slots</b>	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 (Up to 75W)
<b>Drive Bay/ Storage</b>	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS <sup>Note1</sup> drive bays
		8 hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe4.0 x4); support 2280/2260/2242/2230 form factor
<b>Power Supply</b>	Module	1+1, 80-PLUS Platinum, 750W Slim PSU
<b>System Cooling</b>	Fan	6 PWM Easy-swap 40x56 mm fans
<b>Management</b>		ASPEED BMC AST2600
<b>Security</b>		TPM by optional accessory

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



## 1U12E-GENOA/2L2T

1U/2U High  
Density Storage

10Gbase-T



Storage



4800



PCI-E 5.0



OCP NIC 3.0



12 Hot-swap 2.5" NVMe drive bays



## Application

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



1+1 Slim PSU (1000W)

1 OCP NIC 3.0

## 1U12E-GENOA/2L2T

CPU	Socket	1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 300W
DIMM	Slot	24 DDR5 288-pin (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, Reset, UID
	LEDs	Power, UID, System Fail, LAN1/LAN2
	I/O	1 Type-A (USB3.2 Gen1)
Rear IO	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 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 <sup>Note1</sup> drive bays
	Internal	2 M-key (PCIe5.0 x4), supports 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		ASPEED BMC AST2600
Security		TPM by optional accessory

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

## 1U12E-GENOA2

1U/2U High  
Density Storage

OCP NIC 3.0



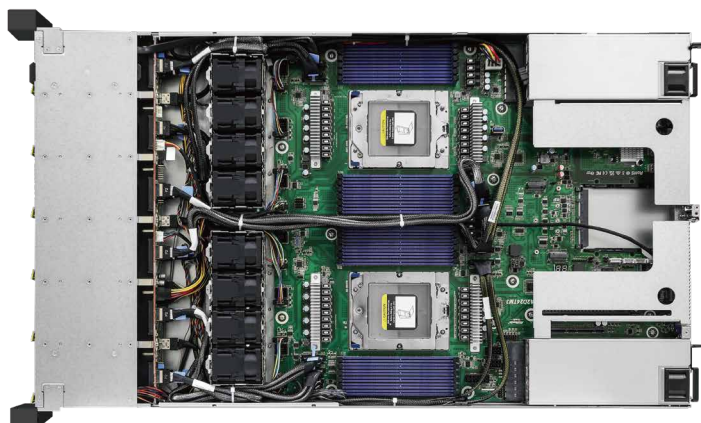
Storage



4800



PCI-E 5.0

12 hot-swap 2.5"  
NVMe/SATA/SAS<sup>Note1</sup> drive bays2 FHHL  
PCIe5.0 x16

1+1 CRPS (1600W)

IPMI

1 OCP 3.0 PCIe5.0 x16

1+1 CRPS (1600W)

## Application

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

## 1U12E-GENOA2

CPU	Socket	1+1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 280W
DIMM	Slot	12+12 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	760 x 438 x 43.5 mm
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset, NMI
	LEDs	HDD Activity, LAN 1/2, System fault
	I/O	1 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1DB9 (COM), 1 UID w/ LED
Expansion Slots	Rear	3 HHHL PCIe5.0 x16 <sup>Note1</sup> [CPU0] [CPU1] 1 OCP3.0 PCIe5.0 x16 [CPU0]
Drive Bay/ Storage	External	12 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA <sup>Note1</sup> /SAS <sup>Note2</sup> drive bays
	Internal	2 M-key (PCIe3.0 x4); support 2280/2260/2242/2230 form factor [CPU0, CPU1]
Power Supply	Module	1+1, 80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	8 Easy-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

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

Note2:

# 2U12L8E-GENOA2



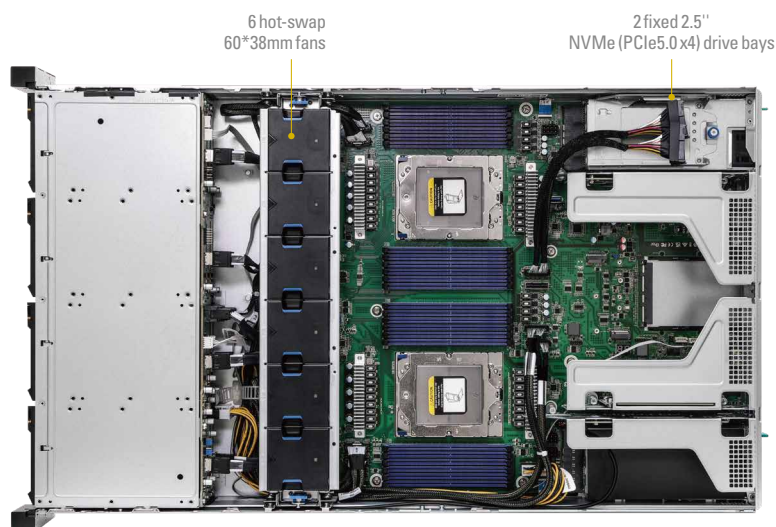
Storage



4800



PCI-E 5.0

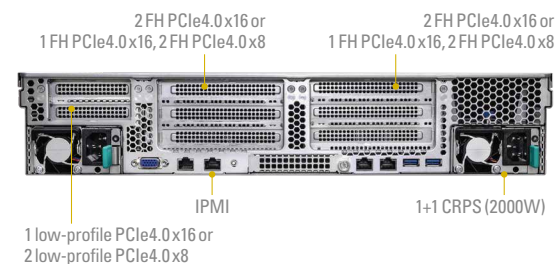


12 hot-swap 3.5"/2.5" drive bays



## Application

- Software-defined Storage
- Data Analytics



## 2U12L8E-GENOA2

CPU	Socket	1+1 Socket SP5 (LGA 6096); Supports AMD EPYC 9004 Processors
	TDP	Up to 320W
DIMM	Slot	12+12 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	770.0 X 438.0 X 86.4 mm
Front Panel	Buttons	Power, UID, Reset
	LEDs	Power Status, LAN Activity, HDD Activity, System status
	I/O	1 Type-A (USB3.2 Gen1), 1 Type-A (USB2.0)
Rear IO	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 w/ LED
Expansion Slots	Rear	2 FH PCIe4.0x16 or 1 FH PCIe4.0x16, 2 FH PCIe4.0x8 [CPU0], 2 FH PCIe4.0x16 or 1 FH PCIe4.0x16, 2 FH PCIe4.0x8 [CPU1] 1 low-profile PCIe4.0x16 or 2 low-profile PCIe4.0x8 [CPU1], 1 OCP NIC 3.0 (PCIe5.0x16) [CPU1]
Drive Bay/ Storage	External	12 hot-swap 3.5"/2.5" drive bays supports 4 SATA HDD/SSD and 8 NVMe (PCIe4.0x4)/SATA SSD <sup>Note1</sup>
	Internal	2 fixed 2.5" NVMe (PCIe5.0x4) drive bays 1 M-key (PCIe3.0x4), supports 2280/2260/2242/2230 form factor [CPU0]; 1 M-key (PCIe3.0x4), 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		ASPEED BMC AST2600
Security		TPM by optional accessory

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



# 2U24E-GENOA2



1U/2U High  
Density Storage



OCP NIC 3.0



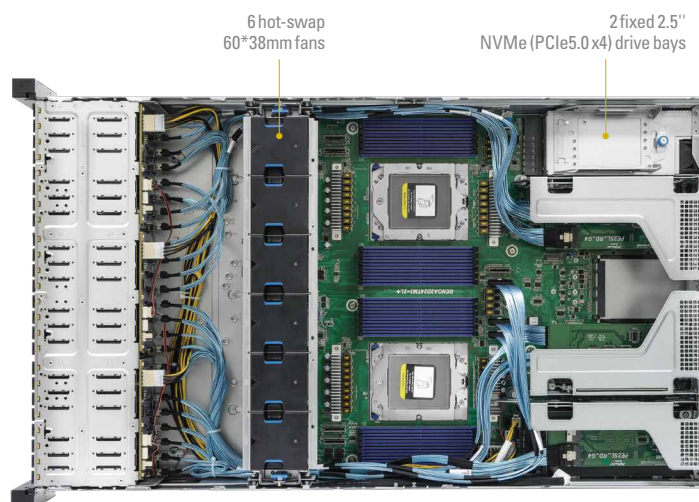
Storage



4800



PCI-E 5.0

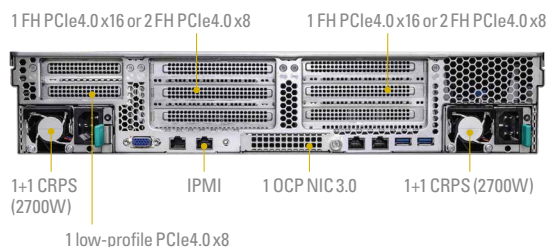


24 hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays



## Application

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



## 2U24E-GENOA2

CPU	Socket	1+1 Socket SP5 (LGA 6096) AMD EPYC 9004 Processors
	TDP	Up to 300W
DIMM	Slot	12+12 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	770.0 X 438.0 X 86.4 mm
Front Panel	Buttons	Power, UID, Reset
	LEDs	Power Status, LAN Activity, HDD Activity, System status
	I/O	1 Type-A (USB3.2 Gen1), 1 Type-A (USB2.0)
Rear IO	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 w/ LED
Expansion Slots	Rear	1 FH PCIe4.0 x16 or 2 FH PCIe4.0 x8 [CPU0], 1 FH PCIe4.0 x16 or 2 FH PCIe4.0 x8 [CPU1] 1 low-profile PCIe4.0 x8 [CPU1], 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]
Drive Bay/ Storage	External	24 hot-swap 2.5" NVMe (PCIe4.0 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		ASPEED BMC AST2600
Security		TPM by optional accessory

# GENOAD8UD-2T/X550



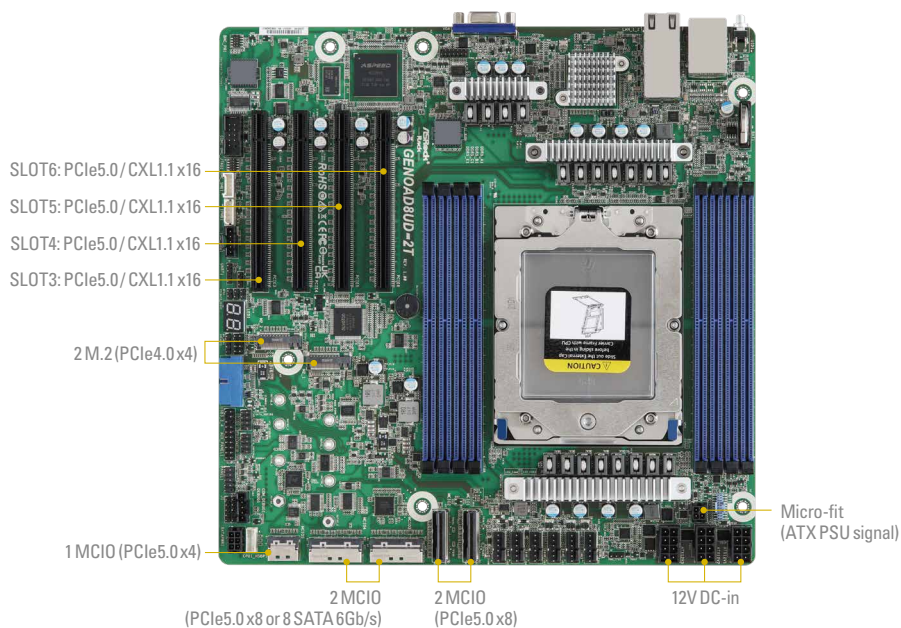
10Gbase-T



4800

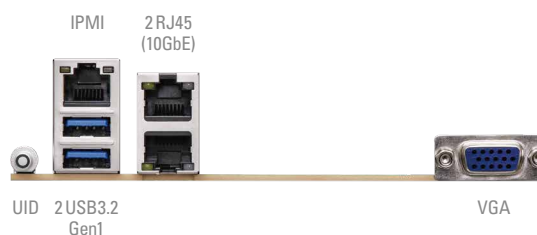


PCI-E 5.0



## Application

- Compact Storage Server
- Enterprise NAS
- Compact GPU Tower



## GENOAD8UD-2T/X550

<b>Power source</b>		Supports ATX PSU and 12V DC-in
<b>Form Factor</b>		10.4" x 10.5"
<b>Processor System</b>	CPU	1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz; 3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
<b>Expansion</b>	PCIe slot	SLOT6: PCIe5.0/ CXL1.1 x16 SLOT5: PCIe5.0/ CXL1.1 x16 SLOT4: PCIe5.0/ CXL1.1 x16 SLOT3: PCIe5.0/ CXL1.1 x16
	Others	2 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4)
<b>Storage</b>	M.2	2 M-key (PCIe4.0 x4), supports 2280/2260/2242/2230 form factor
	SATA port	16 SATA 6 Gb/s: 2 MCIO
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Intel® X550 <sup>Note1</sup>
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
<b>I/O</b>	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)
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules

Note1: R1.00 for LAN chip Intel® X710, R5.00 for LAN chip Intel® X550

# GENOAD8-2T/BCM



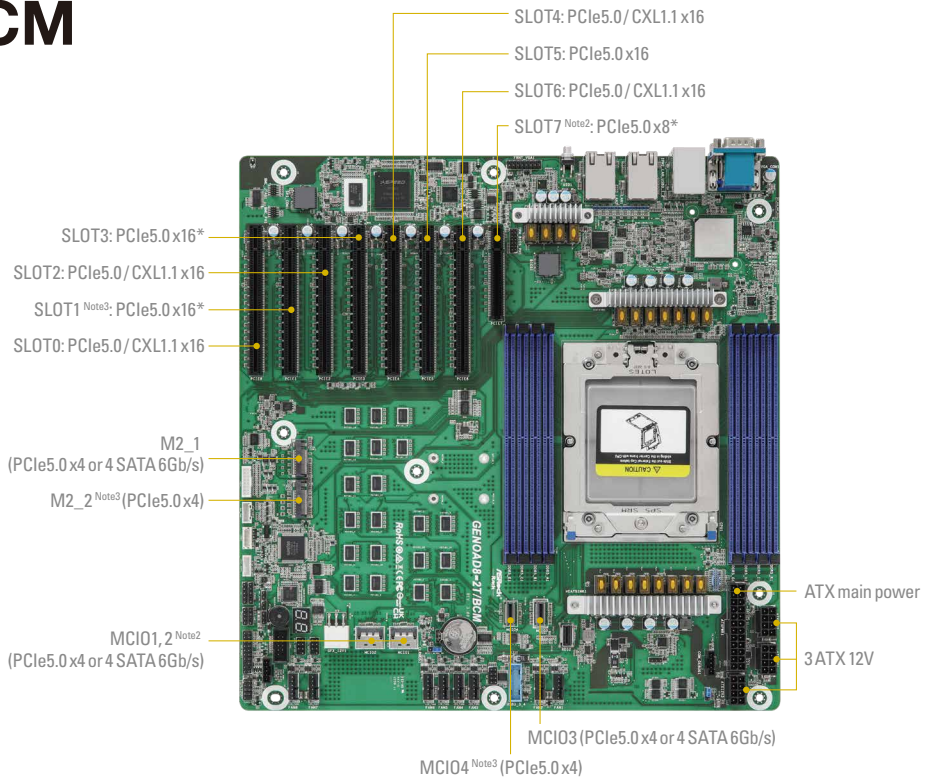
10Gbase-T



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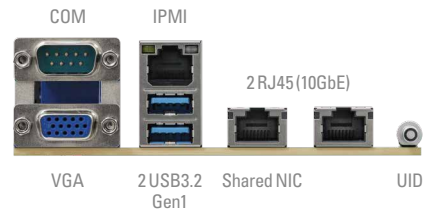


PCI-E 5.0



## Application

- Mainstream Server/Workstation
- Web Hosting



## GENOAD8-2T/BCM

<b>Form Factor</b>		EEB (12.63" x 13") <sup>Note1</sup>
<b>Processor System</b>	CPU	1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS, max. 4800MHz
<b>Expansion</b>	PCIe slot	SLOT7 <sup>Note2</sup> : PCIe5.0 x8 SLOT6, 4, 2, 0: PCIe5.0/CXL1.1 x16 SLOT5, 3: PCIe5.0 x16 SLOT1 <sup>Note3</sup> : PCIe5.0 x16
	Others	MCI01, 2 <sup>Note2</sup> (PCIe5.0 x4 or 4 SATA 6Gb/s) MCI03 (PCIe5.0 x4 or 4 SATA 6Gb/s) MCI04 <sup>Note3</sup> (PCIe5.0 x4)
<b>Storage</b>	M.2	M2_1 (PCIe5.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor, M2_2 <sup>Note3</sup> (PCIe5.0 x4), supports 22110/2280 form factor
	SATA port	13 SATA 6Gb/s: 3 MCI0, 1 M.2
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
<b>I/O</b>	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)
<b>Security</b>	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: 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.



# GENOAD8QM3-2T/BCM



Storage



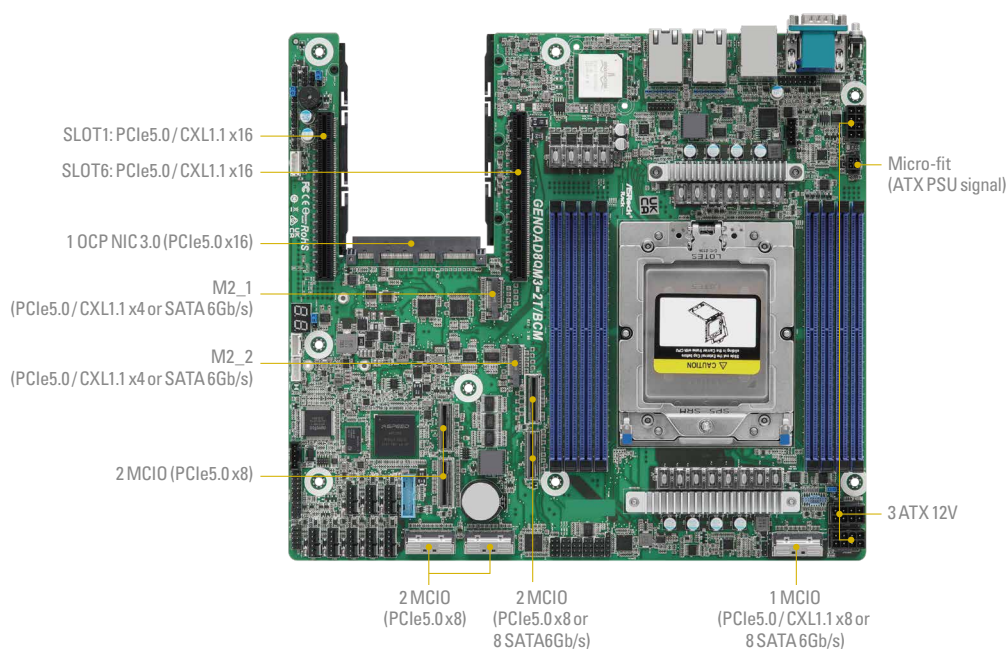
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PCI-E 5.0

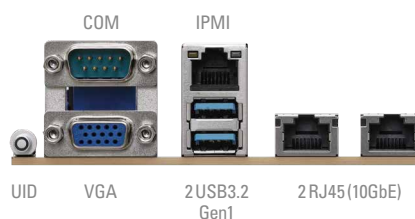


OCP NIC 3.0



## Application

- NVMe Storage Server
- Web Hosting
- General Purpose Server



## GENOAD8QM3-2T/BCM

<b>Form Factor</b>		CEB (12" x 11")
<b>Processor System</b>	CPU	1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz; 3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
<b>Expansion</b>	PCIe slot	SLOT6: PCIe5.0/CXL1.1 x16 SLOT1: PCIe5.0/CXL1.1 x16
	Others	1 MCIO (PCIe5.0/CXL1.1 x8 or 8 SATA 6Gb/s) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) 4 MCIO (PCIe5.0 x8)
<b>Storage</b>	M.2	M2_1 (PCIe5.0/CXL1.1 x4 or SATA 6Gb/s), supports 2280 form factor M2_2 (PCIe5.0/CXL1.1 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	26 SATA 6Gb/s: 3 MCIO, 2 M.2
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
<b>I/O</b>	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
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules

# GENOAD8HM3



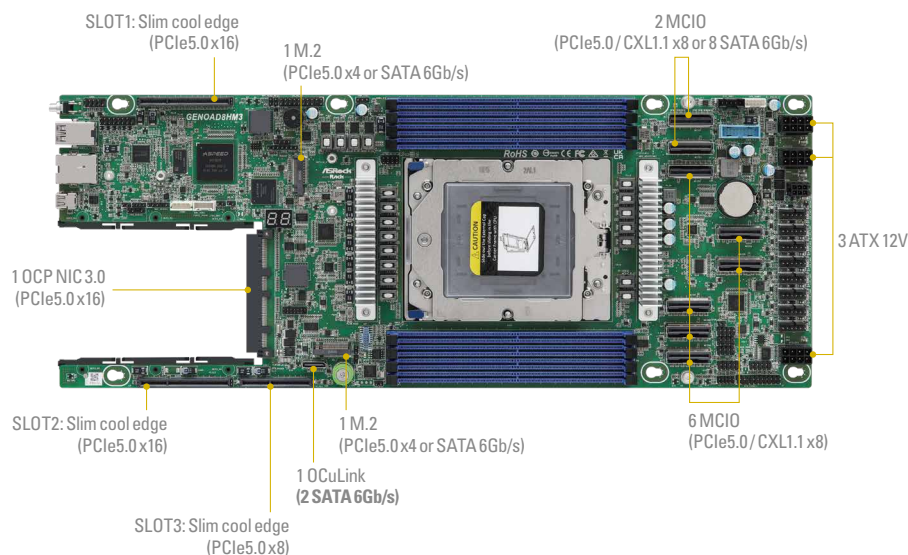
OCP NIC 3.0



PCI-E 5.0

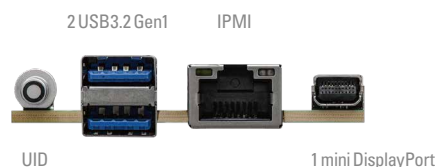


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## Application

- Multi-node Server
- Edge Server



## GENOAD8HM3

<b>Form Factor</b>		Half-Width (6.6" x 17")
<b>Processor System</b>	CPU	1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz ; 3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
<b>Expansion</b>	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/ CXL1.1 x8 or 8 SATA 6Gb/s) 6 MCIO (PCIe5.0/ CXL1.1 x8) 1 OCuLink (2 SATA 6Gb/s)
<b>Storage</b>	M.2	2 M-key (PCIe5.0 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
<b>Network</b>	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
<b>I/O</b>	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
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules

# GENOAD24QM3-2L2T/BCM



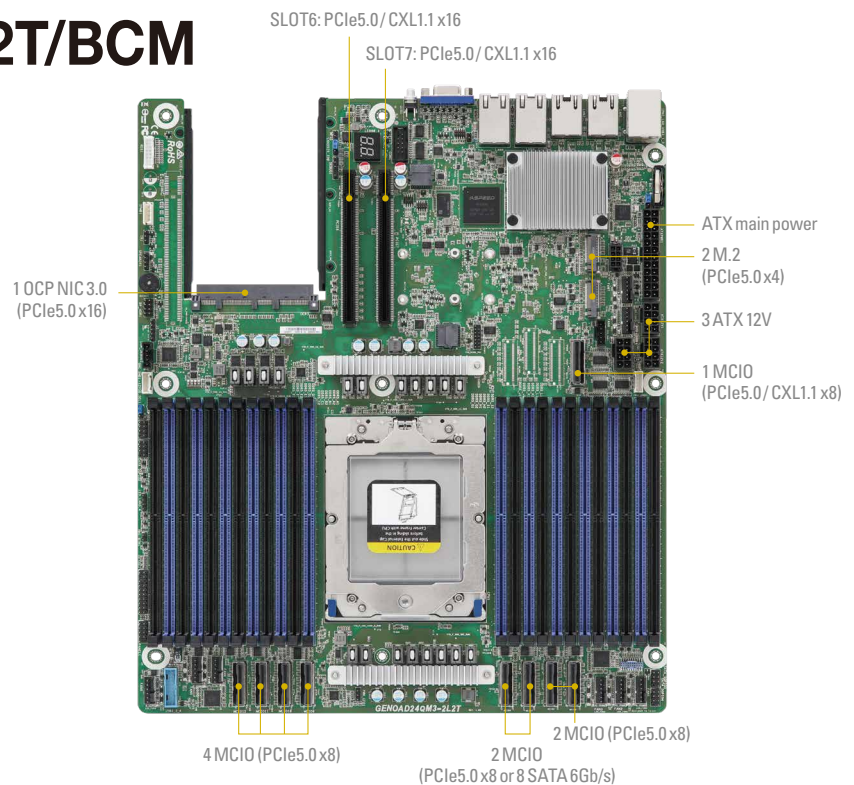
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10Gbase-T



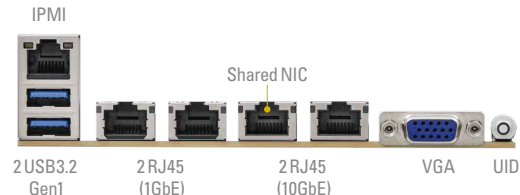
OCP NIC 3.0

PCI-E 5.0



## Application

- CSP
- All-flash Storage Server
- Cloud Computing



## GENOAD24QM3-2L2T/BCM

<b>Form Factor</b>		EEB (12" x 14")
<b>Processor System</b>	CPU	1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	24 DDR5 288-pin DIMM Slots (2DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz; 3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
<b>Expansion</b>	PCIe slot	SLOT7: PCIe5.0/CXL1.1 x16 SLOT6: PCIe5.0/CXL1.1 x16
	Others	1 MCIO (PCIe5.0/CXL1.1 x8) 6 MCIO (PCIe5.0 x8) 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)
<b>Storage</b>	M.2	2 M-key (PCIe5.0 x4/CXL1.1 x4), supports 22110/2280/2260 form factor
	SATA port	16 SATA 6 Gb/s; 2 MCIO
<b>Network</b>	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 <sup>Note1</sup> 2 RJ45 (1GbE) by Intel® i210
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0/CXL1.1 x16)
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F-CG
<b>I/O</b>	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)
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules



# GENOA2D16NQM3-2Q



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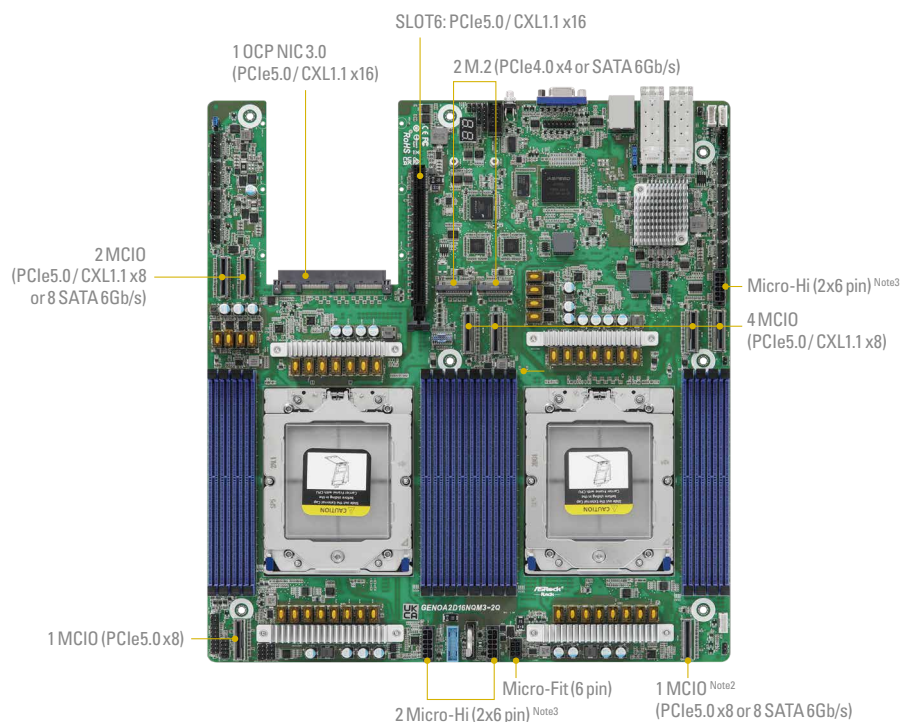
OCP NIC 3.0



25Gbase-T

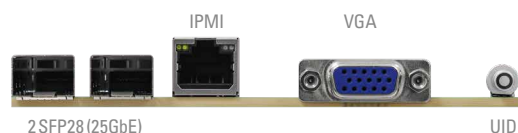


PCI-E 5.0



## Application

- Software-defined application
- HCI



## GENOA2D16NQM3-2Q

Form Factor		EEB (12.82" X 14") <sup>Note1</sup>
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
Memory	Capacity	8+8 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz
		3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
Expansion	PCIe slot	SLOT6: PCIe5.0/CXL1.1 x16 [CPU1]
	Others	4 MCIO (PCIe5.0/CXL1.1 x8) [CPU0]
		1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] <sup>Note2</sup>
		2 MCIO (PCIe5.0/CXL1.1 x8 or 8 SATA 6Gb/s) [CPU1]
		1 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2	2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 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/CXL1.1 x16) [CPU1]
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	2 USB3.2 Gen1 ports: 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: Extend 10.1mm left and 10.7mm right

Note2: MCIO from CPU0 support PCIe only while installing 2 processors

# GENOA2D24TM3-2L+



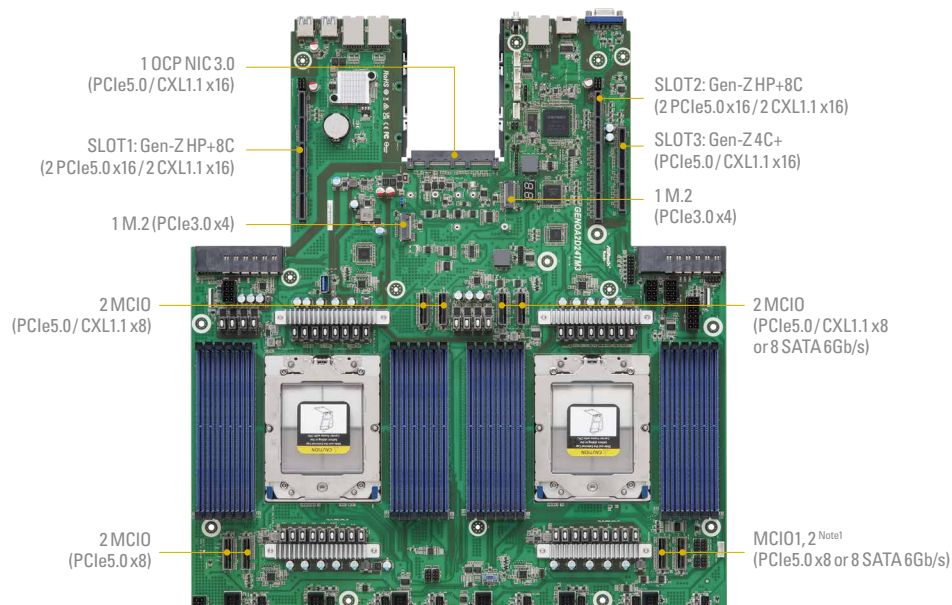
OCP NIC 3.0



PCI-E 5.0



4800



## Application

- Software-defined application
- E-commerce
- HCI



## GENOA2D24TM3-2L+

Form Factor		Proprietary T-shape (17.0149" x 18.8607")
Processor System	CPU	1+1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
Memory	Capacity	12+12 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz
		3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
Expansion	PCIe slot	SLOT1: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL1.1 x16) [CPU1]
		SLOT2: Gen-Z HP+8C (2 PCIe5.0 x16 / 2 CXL1.1 x16) [CPU0]
		SLOT3: Gen-Z 4C+ (PCIe5.0/CXL1.1 x16) [CPU0]
	Others	MCIO1, 2 (PCIe5.0 x8 or 8 SATA 6Gb/s) [CPU0] <sup>Note1</sup>
		2 MCIO (PCIe5.0/CXL1.1 x8 or 8 SATA 6Gb/s) [CPU0]
		2 MCIO (PCIe5.0/CXL1.1 x8) [CPU1]
Storage		2 MCIO (PCIe5.0 x8) [CPU1]
	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]
Network	SATA port	Up to 32 SATA 6 Gb/s: 4 MCIO
	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	OCP NIC	1 OCP NIC 3.0 (PCIe5.0/CXL1.1 x16) [CPU1]
	BMC	ASPEED AST2600
I/O	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 26-pin header, 1 via vertical Type-A
	COM port	1 (9-pin) header, 1 RJ45 (COM)
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: MCIO1 and MCIO2 support PCIe only while installing 2 processors

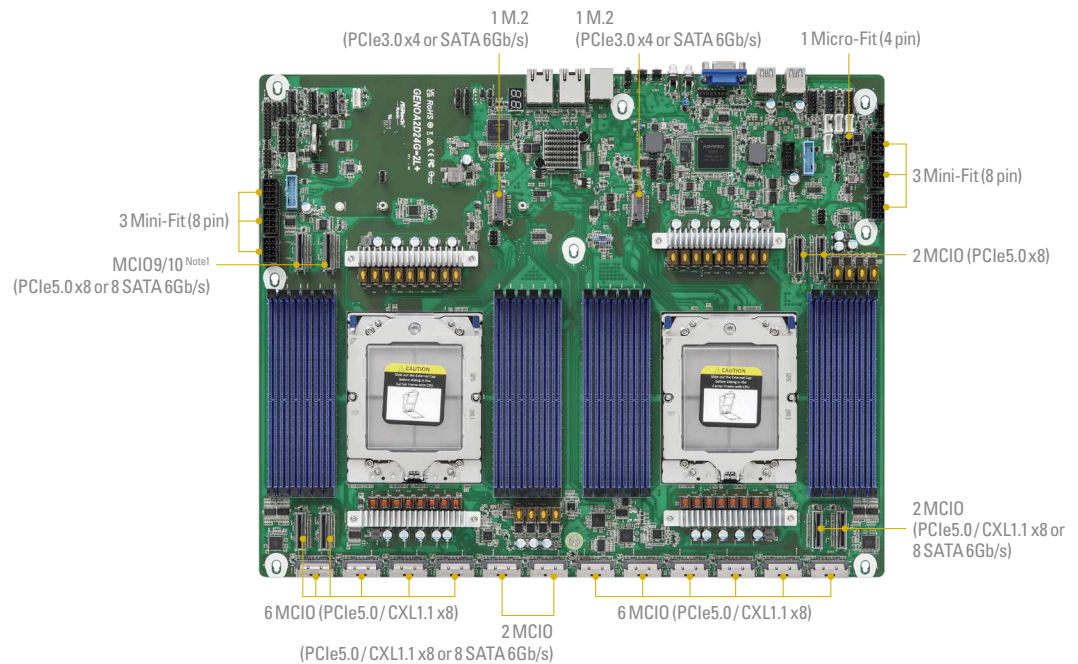
# GENOA2D24G-2L+



4800



PCI-E.5.0



## Application

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



## GENOA2D24G-2L+

<b>Form Factor</b>		Proprietary (16.93"x 13.78")
<b>Processor System</b>	CPU	1+1 Socket SP5 (SM-LGA-6096); Supports AMD EPYC 9004 Processors
	FCH	System on chip
<b>Memory</b>	Capacity	12+12 DDR5 288-pin DIMM Slots (1DPC); Supports RDIMM, LRDIMM, RDIMM-3DS RDIMM: up to 64GB (2R), max. 4800MHz 3DS RDIMM: up to 512GB (2S8RX4), max. 4800MHz
	Others	6 MCIO (PCIe5.0/CXL1.1 x8) [CPU0] 2 MCIO (PCIe5.0/CXL1.1 x8 or 8 SATA 6Gb/s) [CPU0] 2 MCIO (PCIe5.0x8 or 8 SATA 6Gb/s) [CPU0] <sup>Note1</sup> 6 MCIO (PCIe5.0/CXL1.1 x8) [CPU1] 2 MCIO (PCIe5.0/CXL1.1 x8 or 8 SATA 6Gb/s) [CPU1] 2 MCIO (PCIe5.0x8) [CPU1]
<b>Storage</b>	M.2	1 M-key (PCIe3.0x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU0] 1 M-key (PCIe3.0x4 or SATA 6Gb/s), supports 2280 form factor [CPU1]
	SATA port	32 SATA 6 Gb/s: 4 MCIO 2 SATA 6Gb/s by ASM1061: 2 M.2
<b>Network</b>	RJ45	2 RJ45 (1GbE) by Intel® i350
<b>Management</b>	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
<b>I/O</b>	USB	8 USB3.2 Gen1 ports: 4 rear Type-A, 4 via 19-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
<b>Security</b>	TPM	Supports 13-pin (SPI) TPM modules

Note1: MCIO9, 10 support PCIe only while installing 2 processors





**Reliable Server**  
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