

AMD EPYC[™] 4005 Processor Performance for Demanding Workloads

Server Motherboards General Purpose/ GPU/ Multi-node Barebones



Server Platform Naming Rule

B650D4U-2L2T/BCM

Character	Representation	Options	
N	Chipset	 B650 = AMD B650 chipset AM5 = KNOLL3 X300 B550 = AMD B550 chipset X570 = AMD X570 chipset X470 = AMD X470 chipset 	
	Socket Type	 B650 or AM5 = AM5 Socket B550 or X570 or X470 = AM4 Socket 	
N+1	Number of CPU Supported	• NA = Single	
	Number of DIMM Supported	• D4 = 4 DIMM	
Others	Form Factor	 I = mini-ITX ID = Deep mini-ITX (6.7" x 8.2") U = Micro-ATX NA = ATX 	
	Feature	 2T = Dual 10GbE RJ45 by Intel X710 2T/BCM = Dual 10GbE RJ45 by Broadcom BCM57416 4L = Quad 1GbE RJ45 by Intel i210 2L = Dual 1GbE RJ45 by Intel i210 M = OCP 2.0 connector 	

1U4LW-B650/2L2T

Character	Representation	Options
1 st + 2 nd	System Height	1U = 1U chassis4U = 4U chassis
Drive Bay Others		 LW = 3.5" HDD Bay S = 2.5" HDD/SSD Bay E = U.2 Bay
3010	Feature	 G = Dual-slot cards supported N = Number of nodes F = Front I/O

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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 Al, HPC, CDN, and performance-driven environments where fast, reliable data access is critical.

Multi-Node Servers

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





OCP

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

Rack Servers

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





Server Motherboards

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

1U4LW-B650/2L2T RPSU

1U4LW-B650 RPSU

General Purpose Server with Redundant PSU Supporting up to 4 SATA Trays



		1U4LW-B650/2L2T RPSU	1U4LW-B650 RPSU	
CPU	Socket	1 Socket AM5 (LGA1718);		
		Supports AMD EPYC™ 4005/4004 and AME	Ryzen™ 9000/8000/7000 Series Processors	
DIMM	Slot	4 DDR5 288-pin (2DPC)		
System Physical	Form Factor	1U Rackmount		
Status	Chassis Dimension	533.4 x 438 x 44.4 mm (21" x 17.2" x 1.75")		
Front Panel	Buttons	Power w/ LED, UID w/LED, System rese	t	
	LEDs	LANs, HDD activity, System health		
	1/0	2 Type-A (USB3.2 Gen1)		
Rear IO	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	
		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 FHHL PCIe4.0 x16		
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays		
Storage	Internal	M2_1 (PCle5.0 x4), supports 2280/2242	M2_1 (PCIe5.0 x4), supports 2280/2242	
		form factor [CPU]	form factor [CPU] M2_2 (PCIe4.0 x4), supports 2280/2242 form factor [FCH]	
Power Supply	Module	1+1, 450W PSU		
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans		
Management		ASPEED BMC AST2600		
Security		TPM by optional accessory		





1U4L2E-B650 RPSU

General Purpose Server with Redundant PSU Supporting up to 2 Gen4 NVMe and 2 SATA Trays



CPU	Socket	1 Socket AM5 (LGA1718);	
		Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors	
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System Physical	Form Factor	1U Rackmount	
Status	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")	
Front Panel	Buttons	Power, System Reset, UID button	
	LEDs	Power, HDD Activity, LANs, System Event	
	1/0	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	
Drive Bay/	External	2 hot-swap 2.5" NVMe Note1 (PCle4.0 x4) or 3.5" SATA drive bays	
Storage		2 hot-swap 3.5" SATA drive bays	
	Internal	M2_1 (PCle5.0 x4), supports 2280/2242 form factor [CPU]	
		M2_2 Note1 (PCIe4.0 x4), supports 2280/2242 form factor [FCH]	
Power Supply	Module	1+1, 80-PLUS Platinum, 650W Slim PSU	
System Cooling	Fan	6 PWM Hot-swap 40x56 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	









1U4LW-B650/2L2T	1U4LW-B650		
1 Socket AM5 (LGA1718);			
Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000			
4 DDR5 288-pin (2DPC)			

CPU	Socket	1 Socket AM5 (LGA1718);		
		Supports AMD EPYC™ 4005/4004 and AME	Ryzen™ 9000/8000/7000 Series Processors	
DIMM	Slot	4 DDR5 288-pin (2DPC)		
System Physical	Form Factor	1U Rackmount		
Status	Chassis Dimension	533.4 x 438 x 44.4 mm (21" x 17.2" x 1.75")		
Front Panel	Buttons	Power w/ LED, UID w/LED, System rese	t	
	LEDs	LANs, HDD activity, System health		
	1/0	2 Type-A (USB3.2 Gen1)		
Rear IO	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	
		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 FHHL PCIe4.0 x16 via RB1UX16_G4 (Up	o to 75W)	
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays		
Storage	Internal	M2_1 (PCIe5.0 x4), supports 2280/	M2_1 (PCle5.0 x4), supports 2280/2242	
		2242 form factor [CPU]	form factor [CPU] M2_2 (PCIe4.0 x4), supports 2280/2242	
			form factor [FCH]	
Power Supply	Module	1, 80-PLUS Gold, 400W PSU		
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans		
Management		ASPEED BMC AST2600		
Security		TPM by optional accessory		





1U2S-B650

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



CPU	Socket	1 Socket AM5 (LGA1718);
		Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors
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
	1/0	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 PCle4.0 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 (PCle5.0 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





4U18N-AM5/2T 4U18N-AM5



AM5





2 RJ45 (10GbE)





2+2 CRPS (2000W)

		4U18N-AM5/2T	4U18N-AM5	
CPU (per node)	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors		
	TDP	Up to 65W		
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)		
System	Form Factor	4U Rackmount		
Physical Status	Chassis Dimension	950 x 438 x 176 mm (37.4" x 17.2" x 6.9")		
Front Panel	Buttons	UID, Power, RESET		
(per node)	LEDs	System Fail, LAN1/LAN2, UID, Power		
	RJ45	2 RJ45(10GbE) by BCM57416	2 RJ45 (1GbE) by BCM5720L	
		1 dedicated IPMI	1 dedicated IPMI	
	USB	2 Type-A (USB3.2 Gen1)		
	VGA	1 DB15		
Storage	Internal	2 fixed 2.5" NVMe (PCIe4.0 x4) drive bays		
(per node)		1 M-key (PCIe4.0 x4), supports 2280 form factor [CPU]	1 M-key (PCle4.0 x4), supports 2280 form factor [CPU]	
Power Supply	Module	2+2, 80-PLUS Platinum, 2000W CRPS		
System Cooling	Fan	5 PWM Hot-swap 80x80 mm fans		
Management (per node)		ASPEED BMC AST2600		
Security (per node) TPM by o		TPM by optional accessory		

1U2N2G-AM5/2T





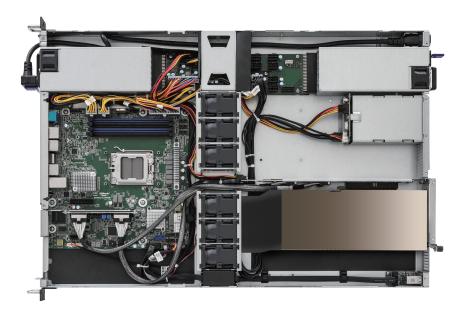


1+1 CRPS (1600W)

CPU (per node)	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel	Buttons	UID w/LED, Power w/LED
(per node)	LEDs	System Fail
	1/0	2 RJ45 (10GbE) by Broadcom BCM57416, 1 dedicated IPMI
		2 Type-A (USB3.2 Gen1), 1 DB15 (VGA), 1 HDMI
Expansion Slots	Rear	1 FH dual-slot PCle5.0 x16
(per node)		
Storage	Internal	1 M-key (PCIe5.0 x4), supports 2280 form factor
(per node)		
Power Supply	Module	1+1,80-PLUS Platinum, 1600W CRPS
System Cooling	Fan	8 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
(per node)		
Security		TPM by optional accessory
(per node)		

1U1G-B650/2L2T







1U1G-B650/2L2T 1U1G-B650

		1014 2000/2221	1014 2000	
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors		
DIMM	Slot	4 DDR5 288-pin (2DPC)		
System	Form Factor	1U Rackmount		
Physical Status	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26.00'' x 17.24'' x 1.71'')		
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset		
	LEDs	System Fault, LAN1/LAN2 Activity		
	1/0	2 RJ45 (10GbE) by Broadcom BCM57416	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	
		1 dedicated IPMI	4 USB Type-A (USB3.2 Gen1)	
		4 USB Type-A (USB3.2 Gen1)	1 DB15 (VGA), 1 DisplayPort, 1HDMI	
		1 DB15 (VGA), 1 DisplayPort, 1 HDMI	1 DB9 (COM)	
		1 DB9 (COM)		
Rear IO	USB	2 Type-A (USB3.2 Gen1)		
Expansion Slots	Front	1 FHHL PCIe4.0 x4 Note1		
	Rear	1 FHFL dual-slot PCle5.0 x16		
Drive Bay/	External	2 Hot-swap 2.5" SATA drive bays		
Storage	Internal	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	
			1 M-key (PCIe4.0 x4), supports 2280/2242 form factor [FCH]	
Power Supply	Module	1+1,80-PLUS Platinum, 1300W CRPS		
System Cooling	Fan	6 PWM dual-rotor 40x56 mm fans		
Management		ASPEED BMC AST2600		
Security		TPM by optional accessory		

Note1: 1 FHHL PCle4.0 x4 support requires additional PCle4.0 x4 to x16 riser cable please contact ASRock Rack.

2U1G-B650









PMI	2 RJ45
	(1GbE)

CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors
DIMM	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	2U Rackmount
Physical Status	Chassis Dimension	477.7 x 430.4 x 88 mm (18.8" x 16.9" x 3.5")
Front Panel	Buttons	Power button w/ LED, System Reset button
	LEDs	System Fail LED, LAN1/LAN2 Activity, Power Status LED
	1/0	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210
		1 dedicated IPMI
	USB	4 Type-A (USB3.2 Gen1)
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI
Expansion Slots	Rear	1 FHFL triple-slot PCle5.0 x16
		1 FHHL PCIe4.0 x4
Drive Bay/Storage	Internal	1 M-key (PCIe5.0 x4), supports 2280/2242 form factor [CPU]
		1 M-key (PCle4.0 x4), supports 2280/2242 form factor [FCH]
Power Supply	Module	1+1,80-PLUS Platinum, 1200W CRPS
System Cooling	Fan	4 PWM easy-swap 80x38 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

B650D4U-2L2T/BCM B650D4U

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 EPYC™	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processo		
	FCH	AMD B650E chipset			
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5600MHz (1DPC); max. 3600MHz (2DP			
Expansion	PCIe slot	SLOT7: PCle5.0 x4 [CPU]			
		SLOT6: PCle5.0 x16 [CPU]			
		SLOT4: PCle4.0 x1 [FCH]			
	Others	OCuLink1 (PCIe4.0 x4) Note1 [CPU]			
		OCuLink2 (PCIe3.0 x4 or 4 SATA 6Gb/s) N	lote2 [FCH]		
Storage	M.2	M2_1 Note1 (PCle5.0 x4),	M2_1 Note1 (PCIe5.0 x4),		
		supports 2280/2242 form factor [CPU]	supports 2280/2242 form factor [CPU]		
			M2_2 Note3 (PCIe4.0 x4),		
			supports 2280/2242 form factor [FCH]		
	SATA port	4 SATA 6Gb/s: 4 SATA 7-pin or 1 OCuLinl	√ Note2		
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 vi	a 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

B650D4U3-2L2Q/BCM B650D4U3

General Purpose Motherboard with High-Speed 25GbE Connectivity For Maximum Data Throughput



		B650D4U3-2L2Q/BCM	B650D4U3
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System CPU		1 Socket AM5 (LGA1718); Supports AMD EPYC™40	05/4004 and AMD Ryzen™9000/8000/7000 Series Proces
	FCH	AMD B650E chipset	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 E	CC/non-ECC UDIMM,
		max. 5600MHz (1DPC); max. 3600MHz (2DPC)
Expansion	PCIe slot	SLOT7: PCIe4.0 x1 [FCH]	
		SLOT6: PCIe5.0 x16 [CPU]	
		SLOT4: PCIe4.0 x4 [FCH]	
Storage	M.2	M2_1 (PCle5.0 x4), supports 2280/	M2_1 (PCle5.0 x4), supports 2280/
		2242 form factor [CPU]	2242 form factor [CPU] M2_2 Note1 (PCIe4.0 x4), supports 22110/ 2280 form factor [CPU]
	SATA port	4 SATA 6Gb/s: 4 SATA 7-pin	
Network	RJ45	2 RJ45 (1GbE) by Intel® i210	
	SFP28	2 SFP28 (25GbE) by Broadcom BCM57502	N/A
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
1/0	USB	6 USB3.2 Gen1 ports: 4 rear Type-A, 2 vi	a 19-pin header
		2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA),1 HDMI	
Security	TPM	Supports 13-pin (SPI) TPM modules	





Note1: M2_2 only available on B650D4U3 SKU

AM5D4ID-2T/BCM AM5D4ID-2L+/BCM







		AM5D4ID-2T/BCM AM5D4ID-2L+/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 EPYC™ 4005/4004 and AMD Ryzen™ 9000/8000/7000 Series Processors			
	Chipset	KNOLL3 X300			
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5600MHz	(1DPC); max. 3600MHz (2DPC)		
Expansion	PCIe slot	SLOT7: PCIe5.0 x16 [CPU]			
	Others	1 OCuLink (PCle4.0 x2) [CPU]			
Storage	M.2	1 M-key (PCle5.0 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			
1/0	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			





CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Deskto
		Processors
DIMM	Slot	4 DDR4 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, LAN 1/2, System Event
	1/0	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/	External	2 x 2.5" SATA/NVMe (PCIe4.0 Note1 x4) drive bays
Storage	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD (optional)
		1 M-key (PCIe4.0 Note1 x4 or SATA 6Gb/s); support 22110/2280/2260/2242 form
		factor [CPU]
		1 M-key (PCIe4.0 Note1 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





 $\textbf{Note1:} \ \textbf{Supports PCle3.0} \ when \ using \ \textbf{AMD Ryzen 4000G} \ and \ \textbf{3000G} \ \textbf{Series Processors with Radeon Graphics}$

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 Deskt
		Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
System Physical	Form Factor	1U Rackmount
Status	Chassis Dimension	250 x 430 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
	1/0	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 PCle4.0 x16 Note1
Drive Bay/	Internal	2 fixed 3.5" SATA drive bays
Storage		1 fixed 2.5" SATA drive bay
		1 fixed 2.5" NVMe (PCIe4.0 Note2 x4) drive bay
		1 M-key (PCIe4.0 Note2 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 PCle3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics
Note2: Supports PCle3.0 when using AMD Ryzen™ 4000 and 3000 G-Series Desktop Processors with Radeon™ Graphics





1U2LW-X570/2L2T

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 430 x 44.4 mm (15.5" x 16.93" x 1.7	5'')	
Front Panel	Buttons	Power Switch, System Reset		
	LEDs	Power Status, HDD, LAN Activity LEDs		
	1/0	2 Type-A (USB 3.2 Gen1)		
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	
		1 dedicated IPMI		
	USB	2 Type-A (USB3.2 Gen2)		
	Others	1 UID w/ LED, 1 DB15 (VGA), 1 DB9 (COM	1)	
Expansion Slots	Rear	1 FHHL PCIe4.0 x16 Note1 via RB1UX16_G	4	
Drive Bay/	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODI		
Storage		1 fixed 3.5"/2.5" SATA drive bay		
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU		
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s)	, supports 2280/2260/2242 form factor [FCH]	
Power Supply	Module	1 Gold 315W PSU		
System Cooling	Fan	3 PWM Hot-swap 40x28 mm fans		
Management		ASPEED BMC AST2500		
Security		TPM by optional accessory		







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 430x 44.4 mm (15.5" x 16.93" x 1.75")
Front Panel	Buttons	Power switch, System reset
	LEDs	Power status, HDD, LAN activity LEDs
	1/0	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 PCle3.0 x16 Note1
Drive Bay/	Internal	1 fixed 3.5" SATA drive bay or 1 Slim ODD
Storage		1 fixed 3.5"/2.5" SATA drive bay
		1 M-key (PCle3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [FCH
		1 M-key (PCle2.0 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 PCle3.0 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)	4 DDR4 288-pin (2DPC)			
System Physical	Form Factor	1U Rackmount				
Status	Chassis Dimension	533.4 x 438 x 44.4 mm (21" x 17.2" x 1.7	(5")			
Front Panel	Buttons	Power button w/ LED, UID w/LED, Sy	rstem reset			
	LEDs	LANs, HDD activity, System health				
	1/0	2 USB 3.2 Gen1 ports				
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2	2 RJ45 (1GbE) by Intel® i210	2 RJ45 (10GbE) by Intel® X550-AT2	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI	
		1 dedicated IPMI		1 dedicated IPMI		
	USB	2 USB3.2 Gen2 ports	2 USB3.2 Gen2 ports			
	Others	1 UID, 1 DB15 (VGA), 1 DB9 (COM)	1 UID, 1 DB15 (VGA), 1 DB9 (COM)			
Expansion Slots	Rear	1 FH PCIe4.0 x16 Note1				
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays [Fro	ont]			
Storage	Internal	3 fixed 2.5" SATA drive bays or 2 fixed	12.5" SATA drive bays, 1 Slim ODD			
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb	1 M-key (PCle4.0 Note2 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU]			
		1 M-key (PCle4.0 Note2 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]				
Power Supply	Module	1+1 450W RPSU	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 PCle3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics. Supports PCle3.0 x16 when using AMD Ryzen 4000G Series Processors with Radeon Graphics Note2: Supports PCle3.0 when using AMD Ryzen 4000G and 3000G Series Processors with Radeon Graphics

1U4LW-X470 RPSU

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 438 x 44.4 mm (21" x 17.2" x 1.75")		
Front Panel	Buttons	Power button w/ LED, UID w/LED, System reset, NMI		
	LEDs	LANs, HDD activity, System Fail activity LEDs		
	1/0	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 PCle3.0 x16 Note1		
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays [Front]		
Storage	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 fa	actor [FCH]	
		1 M-key (PCIe2.0 x4), supports 22110/2280/2260/2242 form factor [FCH]		
Power Supply	Module	1+1300W RPSU 1 Gold 400W PSU		
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans		
Management		ASPEED BMC AST2500		
Security		TPM by optional accessory		

 $\textbf{Note1:} \ \textbf{Supports PCle3.0} \ \textbf{x8} \ \textbf{when using AMD Ryzen 3000G Series Processors with Radeon Graphics}$

4U18N-B550/2T

4U18N-B550



AM4





2 fixed 2.5" NVMe/SATA drive bays

2 RJ45 (10GbE)





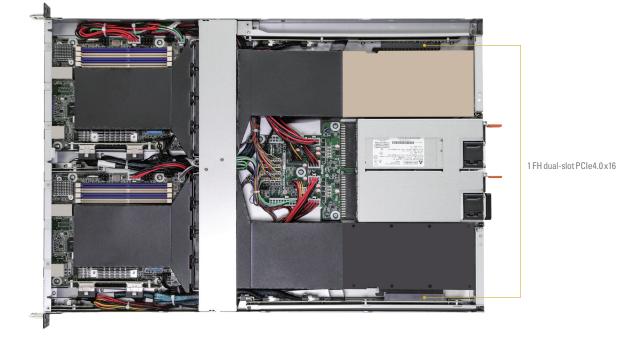
3+1 1600W CRPS

		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 (37.4" x 17.2" x 6.9")			
Front Panel	Buttons	UID , Power , RESET			
(per node)	LEDs	System Fail, LAN1/LAN2, UID, Power			
	RJ45	2 RJ45(10GbE) by Intel® X710-AT2	2 RJ45(1GbE) by Intel® i210		
		1 dedicated IPMI	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 Note1 x4)/SATA drive bays (BT0)			
		1 M-key (PCIe4.0 Note1 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CF	PU]		
		1 M-key (PCle3.0 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			

 $\textbf{Note1:} \ \textbf{Supports PCle3.0} \ \textbf{when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics}$

1U2N2G-B550

1U2N2G-B550/2T





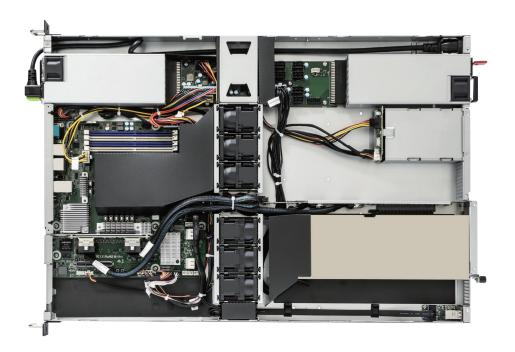
1U2N2G-B550/2T 1U2N2G-B550

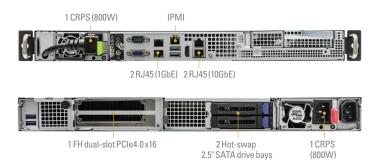
		1U2N2G-B55U/21	1U2N2G-B55U		
CPU (per node) Socket		1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series desktop processors			
DIMM (per node)	Slot	4 DDR4 288-pin (2DPC)			
System Physical	Form Factor	1U Rackmount			
Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")			
Front Panel	Buttons	UID , Power w/LED			
(per node)	LEDs	UID, System Fail			
	RJ45	2 RJ45(10GbE) by Intel® X710-AT2	2 RJ45(1GbE) by Intel® i210		
		1 dedicated IPMI	1 dedicated IPMI		
	USB	2 USB 3.2 Gen1 ports			
	VGA	1 DB15			
Expansion Slots (per node	Rear	1 FH dual-slot PCle4.0 Note1 x16			
Storage (per node) Internal	1 M-key (PCIe4.0 Note1 x4 or SATA 6Gb/s), supports 2280 form factor [CPU]			
Power Supply	Module	1+1 Platinum 1200W CRPS			
System Cooling	Fan	8 dual-rotor 40x56 mm fans			
Management (per	node)	ASPEED BMC AST2500			
Security (per nod	e)	TPM by optional accessory			

Note1: Supports PCle3.0 when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics

1U1G-X570/2L2T







		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			
	1/0	2 RJ45(10GbE) by Intel® X550-AT2	2 RJ45 (1GbE) by Intel® i210		
		2 RJ45 (1GbE) by Intel® i210	1 dedicated IPMI		
		1 dedicated IPMI	2 USB3.2 Gen2 ports		
		2 USB3.2 Gen2 ports	1 DB15 (VGA), 1 DB9 (COM), 1 HDMI		
		1 DB15 (VGA), 1 DB9 (COM), 1 HDMI			
Rear IO	USB	2 USB3.2 Gen1 ports			
Expansion Slots	Rear	1 FH dual-slot PCle4.0 x16 Notel			
Drive Bay/	External	2 Hot-swap 2.5" SATA drive bays			
Storage	Internal	1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU]			
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]			
Power Supply	Module	1+1 Platinum 800W CRPS			
System Cooling	Fan	6 single-rotor 40x56 mm fans			
Management		ASPEED BMC AST2500			
Security		TPM by optional accessory			

Note1: Supports PCle3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics
Supports PCle3.0 x16 when using AMD Ryzen 4000G Series Processors with Radeon Graphics
Note2: Supports PCle3.0 when using AMD Ryzen 4000G and 3000G Series Processors with Radeon Graphics



		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-S	eries Desktop Processors with Radeon™ Graph		
		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 Note1 / UDIMMs up to 32GB each; max. 3200MHz			
Expansion	PCIe slot	SLOT6: PCIe4.0 x16 Note2, SLOT5: PCIe4.0 x1 Note3, SLOT4: PCIe4.0 x8 Note4			
Storage	M.2	1 M-key (PCIe4.0 Note4 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor			
		1 M-key (PCIe4.0 Note4 x4 or SATA 6Gb/s)	1 M-key (PCIe4.0 $^{\text{Note4}}$ x4 or SATA 6Gb/s), supports 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		
		2 RJ45 (1GbE) by Intel® i210			
Management	вмс	ASPEED AST2500: IPMI 2.0			
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E			
1/0	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 Note6			
Security	TPM	PM Supports 17-pin (LPC) and 13-pin (SPI) TPM modules			





with Radeon™ Graphics With Nadeon™ Graphics

Note4: SLOT4 supports PCle3.0 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



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 De	sktop Processors		
		AMD Ryzen™ PRO 5000, 4000 and 3000 Notel Series Desktop Processors			
	FCH	AMD B550			
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports:			
		ECC Note2/UDIMMs up to 32GB each; max. 3200MHz			
Expansion	PCIe slot	SLOT6: PCle4.0 x16			
		SLOT4: PCle4.0 x4			
Storage	M.2	1 M-key (PCle3.0 x4 or SATA 6Gb/s),	1 M-key (PCle3.0 x4 or SATA 6Gb/s) and		
		supports 22110/2280/2260/2242 form	1 M-key (PCIe3.0x2), supports 22110/		
		factor	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 ASM10			
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			
1/0	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header			
	Video	1 DB15(VGA), 1 HDMI Note3			
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) 1	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







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™ Graph
		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 Note1 / UDIMMs up to 32GB each; max. 2666MHz
Expansion	PCIe slot	SLOT6: PCle3.0 x16 Note2 [CPU]
		SLOT5: PCIe x8 (PCIe3.0 x4) [CPU]
		SLOT4: PCIe x16 (PCIe3.0 x8) Note2 [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
1/0	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







X470D4U2-2T

AMD Ryzen Network Server with 10 Gb Ethernet Connectivity



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™ Graph
		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 Notel /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCle3.0 x16 Note2 [CPU]
		SLOT5: PCle2.0 x1 [FCH]
		SLOT4: PCIe x16 (PCIe3.0 x8) Note2 [CPU]
Storage	M.2	1 M-key (PCle3.0 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	ВМС	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 PCle3.0 x8 when SLOT4 is occupied, and SLOT4 will not function when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics







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™ Graph
		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 Note1 /SODIMMs up to 32GB each; max. 2933MHz
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note2
	Others	2 OCuLink Note3 (PCIe4.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key Note3 (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	вмс	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 PCle3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics, and support PCle3.0 x8 only when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics

Note3: OCuLink and M.2 supports PCle3.0 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 De	sktop Processors with Radeon™ Graphics	
		AMD Ryzen™ 5000 and 3000 Series Desk	top Processors	
		AMD Ryzen™ PRO 5000, 4000 and 3000 Note1 Series Desktop Processors		
	FCH	AMD B550		
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports:		
		ECC Note2 / UDIMMs up to 32GB each; max. 3200MHz		
Expansion	PCIe slot	SLOT7: PCle4.0 x16		
Storage	M.2	1 M-key (PCle4.0 Note3 x4 or SATA 6Gb/s), supports 22110 (BTO) Note4/2280 form factor		
		1 M-key (PCIe3.0 x2 or SATA 6Gb/s), supports 2280 form factor (BT0) Note5		
	SATA port	4 SATA 6Gb/s: 1 OCuLink		
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2	2 RJ45 (1GbE) by Intel® i210	
		2 RJ45 (1GbE) by Intel® i210		
Management	BMC	ASPEED AST2500: IPMI 2.0		
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E		
1/0	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via 19-pin header		
	Video	1 DB15(VGA), 1 HDMI Note6		
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 PCle3.0 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

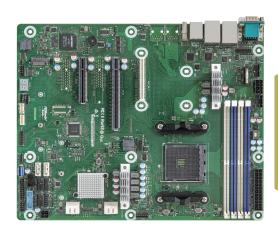






Form Factor		ATX (12" x 9.6")
Processor System CPU		AM4 PGA 1331; Supports:
		AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics
		AMD Ryzen™ 5000 and 3000 Series Desktop Processors
		AMD Ryzen™ PRO 5000, 4000 and 3000 Note1 Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports:
		ECC Note2/UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe x16 (PCIe4.0 x8) [CPU]
		SLOT4: PCle x8 (PCle3.0 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 (PCle3.0 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 Note3
Security	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules







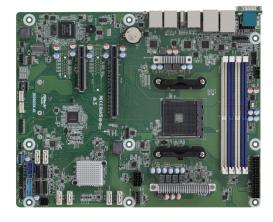
B550D4-4L

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 Note1 Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports:
		ECC Note2 / UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCle4.0 x16
		SLOT4: PCle4.0 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	1 DB15(VGA), 1 HDMI Note3
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







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