

AMD EPYC[™] 4004 Processor

Performance for Demanding Workloads

Server Motherboards General Purpose/ GPU/ Multi-node Barebones



Server Platform Naming Rule

B650D4U-2L2T/BCM

Character	Representation	entation 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
Others	Drive Bay	 LW = 3.5" HDD Bay S = 2.5" HDD/SSD Bay E = U.2 Bay
	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.

Barebones Series

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





OPEN 19

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

Server Motherboards

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





Workstation Motherboards

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

1U4LW-B650 RPSU

		1U4LW-B650/2L2T RPSU	1U4LW-B650 RPSU
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™4004 and AMD Ryzen™8000/7000 series	
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	
	I/O	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 (CON	1), 1 DisplayPort, 1 HDMI
Expansion Slots	Rear	1 FHHL PCle4.0 x16	
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays	
Storage	Internal	M2_1 (PCle5.0 x4), supports 2280/2242	M2_1 (PCle5.0 x4), supports 2280/2242
		form factor [CPU]	form factor [CPU] M2_2 (PCle4.0 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™4004 and AMD Ryzen™8000/7000 series prod
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 PCle4.0 x16
Drive Bay/	External	2 hot-swap 2.5" NVMe Note1 (PCIe4.0 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

General Purpose Server Equipped with Dual 10GbE Supporting up to 4 SATA Trays



		1U4LW-B650/2L2T	1U4LW-B650
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD EP	C [™] 4004 and AMD Ryzen [™] 8000/7000 series proces
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	/I), 1 DisplayPort, 1 HDMI
Expansion Slots	Rear	1 FHHL PCle4.0 x16 via RB1UX16_G4 (U)	p to 75W)
Drive Bay/	External	4 Hot-swap 3.5" SATA drive bays	
Storage	Internal	M2_1 (PCle5.0 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™4004 and AMD Ryzen™8000/7000 series pro
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 (PCle4.0 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





2 RJ45 (10GbE)

Security (per node)



TPM by optional accessory

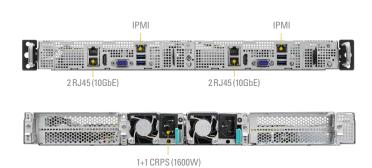


		4U18N-AM5/2T	4U18N-AM5	
CPU (per node)	Socket	1 Socket AM5 (LGA 1718) for AMD EPYC™ 4004 and AMD Ryzen™ 8000/7000 series processors		
	TDP	Up to 65W		
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)		
System	Form Factor	4U Rackmount		
Physical Status	Chassis Dimension	950 x 438 x 176 mm (37.4" x 17.2" x 6.9")		
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		

1U2N2G-AM5/2T





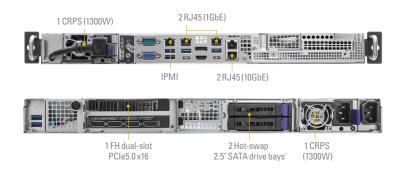


CPU (per node)	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4004 and AMD Ryzen™ 8000/7000 series processors
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel	Buttons	UID w/LED, Power 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 (PCle5.0 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







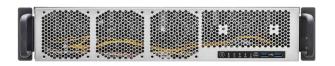
		1U1G-B650/2L2T	1U1G-B650
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4004 and AMD Ryz	ren™ 8000/7000 series processors
DIMM	Slot	4 DDR5 288-pin (2DPC)	
System	Form Factor	1U Rackmount	
Physical Status	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26.00" x 17.24" x 1.71")	
Front Panel	Buttons	Power 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 (PCle5.0 x4), supports 2280/2242 form factor [CPU]	1 M-key (PCle5.0 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	

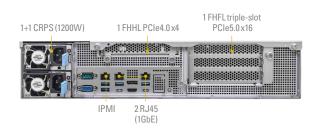
Note1: 1 FHHL PCle4.0 x4 support requires additional PCle4.0 x4 to x16 riser cable please contact ASRock Rack.

2U1G-B650









Socket	1 Socket AM5 (LGA1718); Supports AMD EPYC™ 4004 and AMD Ryzen™ 8000/7000 series processors
Slot	4 DDR5 288-pin (2DPC)
Form Factor	2U Rackmount
Chassis Dimension	477.7 x 430.4 x 88 mm (18.8" x 16.9" x 3.5")
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)
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
Rear	1 FHFL triple-slot PCle5.0 x16
	1 FHHL PCIe4.0 x4
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]
Module	1+1,80-PLUS Platinum, 1200W CRPS
Fan	4 PWM easy-swap 80x38 mm fans
	ASPEED BMC AST2600
	TPM by optional accessory
	Slot Form Factor Chassis Dimension Buttons LEDs I/O RJ45 USB Others Rear Internal Module

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 EPY	YCTM 4004 and AMD Ryzen TM 8000/7000 series Processors	
	FCH	AMD B650E chipset		
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/no	on-ECC UDIMM, max. 5200MHz (1DPC); max. 3600MHz (21	
Expansion	PCIe slot	SLOT7: PCle5.0 x4 [CPU]		
		SLOT6: PCle5.0 x16 [CPU]		
		SLOT4: PCle4.0 x1 [FCH]		
	Others	OCuLink1 (PCle4.0 x4) Note1 [CPU]		
		OCuLink2 (PCle3.0 x4 or 4 SATA 6Gb/s) ^h	Note2 [FCH]	
Storage	M.2	M2_1 Note1 (PCIe5.0 x4),	M2_1 Note1 (PCIe5.0 x4),	
		supports 2280/2242 form factor [CPU]	supports 2280/2242 form factor [CPU]	
			M2_2 Note3 (PCle4.0 x4),	
			supports 2280/2242 form factor [FCH]	
	SATA port	4 SATA 6Gb/s: 4 SATA 7-pin or 1 OCuLink 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		
1/0	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 Displa	ayPort, 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™4004 and AMD Ryzen™8000/7000 series Prod			
	FCH	AMD B650E chipset			
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 E	CC/non-ECC UDIMM,		
		max. 5200MHz (1DPC); max. 3600MHz (2DPC)		
Expansion	PCIe slot	SLOT7: PCle4.0 x1 [FCH]			
		SLOT6: PCle5.0 x16 [CPU]	SLOT6: PCle5.0 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			
//0	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 HDMI			
Security	TPM	Supports 13-pin (SPI) TPM modules			





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







		AM5D4ID-2T/BCM	AM5D4ID-2L+/BCM	
Power Source	lower 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™ 4004 and AMD Ryzen™ 8000/7000 series Processors		
	Chipset	KNOLL3 X300		
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5200MHz	(1DPC); max. 3600MHz (2DPC)	
Expansion	PCIe slot	SLOT7: PCIe5.0 x16 [CPU]		
	Others	1 OCuLink (PCIe4.0 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 (PCle4.0 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





Note1: Supports PCle3.0 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 Deskto
		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 PCIe3.0 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 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 Ryze	n™ 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	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	<i>/</i> 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	0		
Storage		1 fixed 3.5"/2.5" SATA drive bay			
		1 M-key (PCle4.0 Note2 x4 or SATA 6Gb/s)	1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CF		
		1 M-key (PCle4.0 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			

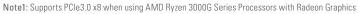
Note1: Supports PCle3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics Supports PCle3.0 x16 when using AMD Ryzen 4000G Series Processors with Radeon Graphics Note2: Supports PCle3.0 when using AMD Ryzen 4000G and 3000G Series Processors with Radeon Graphics

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





















		1U4LW-X570/2L2T RPSU	1U4LW-X570 RPSU	1U4LW-X570/2L2T	1U4LW-X570
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ry	zen™ 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 1.7	5")		
Front Panel	Buttons	Power button w/ LED, UID w/LED, Sy	stem 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			
	Others	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	nt]		
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	s), supports 22110/2280/2260/2242 for	m factor [CPU]	
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb	/s), supports 2280/2260/2242 form fact	or [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 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 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 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 PCIe3.0 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 (PCle3.0 x2 or SATA 6Gb/s), supports 22110/2280/2260/2242 form fa	ctor [FCH]	
		1 M-key (PCle2.0 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 PCle3.0 x8 when using AMD Ryzen 3000G Series Processors with Radeon Graphics

4U18N-B550/2T







2 fixed 2.5" NVMe/SATA drive bays

2 RJ45 (10GbE)





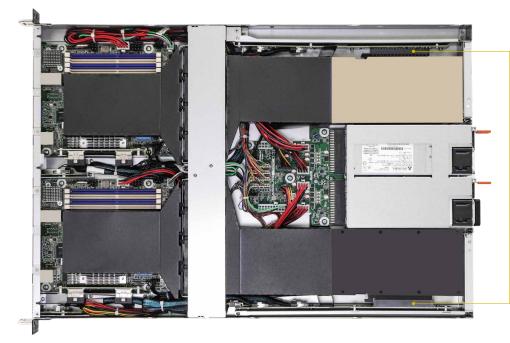
3+1 1600W CRPS

		4U18N-B550/2T	4U18N-B550	
CPU (per node) Socket 1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series			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	e) Internal	2 fixed 2.5" NVMe (PCIe4.0 Note1 x4) /SATA drive bays (BT0)		
		1 M-key (PCle4.0 Note1 x4 or SATA 6Gb/s), supports 22110/2280 form factor [CPU]		
		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	r 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

1U2N2G-B550/2T 1U2N2G-B550





1 FH dual-slot PCle4.0 x16



		1U2N2G-B550/2T	1U2N2G-B550	
CPU (per node)	Socket	1 AM4 (PGA 1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000 series deskto	pp 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 node	e)	TPM by optional accessory		

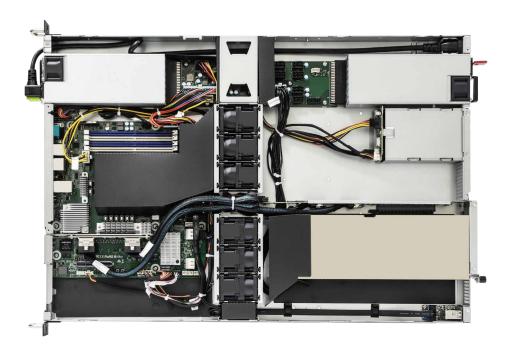
Note1: Supports PCle3.0 when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics

AM4

1U1G-X570/2L2T

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 System Fail, LAN1, LAN2		
	LEDs			
	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 Note1		
Drive Bay/	External	2 Hot-swap 2.5" SATA drive bays		
Storage	Internal	1 M-key (PCle4.0 Note2 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 for	m factor [CPU]	
		1 M-key (PCIe4.0 Note2 x4 or SATA 6Gb/s), supports 2280/2260/2242 form fact	or [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

PCle4.0 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-S	eries Desktop Processors with Radeon™ Grap	
		AMD Ryzen™ 5000 and 3000 Series De	sktop 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; ma	x. 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 (PCle4.0 Note4 x4 or SATA 6Gb/s)	, supports 2280/2260/2242 form factor	
	SATA port	12 SATA 6Gb/s: 7 SATA 7-pin, 1 SATA DO	OM, 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	BMC	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	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 PCle4.0 x8 when SLOT4 occupied.

SLOT6 supports PCle3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics and supports PCle3.0 x8 only when installing AMD Ryzen™ 3000 G-Series Desktop Processors with Radeon™ Graphics.

Note3: SLOT5 and M.2 supports PCle3.0 only when installing AMD Ryzen™ 5000, 4000 and 3000 G-Series Desktop Processors

with Radeon™ 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

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 De	sktop 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; ma	x. 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 ASM106		
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	a 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





X470D4U

Cost-efficient AMD Ryzen Network Server Solution



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™ Graphic
		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 (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]
	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 PCle3.0 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-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™ Graphic
		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. 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 (PCle2.0 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
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









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 (PCle4.0 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	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

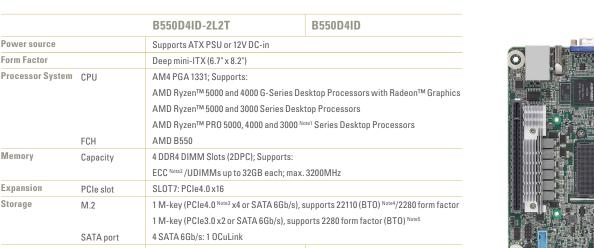


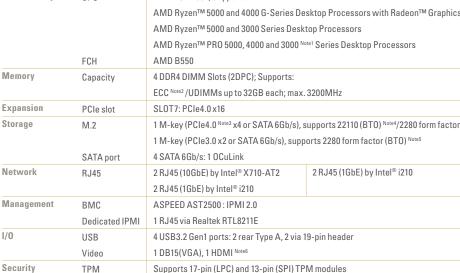


Note1: For AMD Ryzen™ Desktop Processors with Radeon™ Graphics, ECC support is only with Processors with PRO technologies. Note2: SLOT7 supports PCle3.0 only when installing AMD Ryzen™ 5000, 4000 G-Series Desktop Processors with Radeon™ Graphics, and support PCle3.0 x8 only when installing AMD Ryzen™ 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**





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



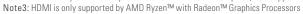


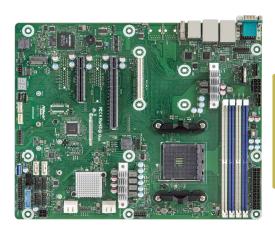
B550D4M

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 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: 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 (PCle3.0 x8)
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
1/0	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

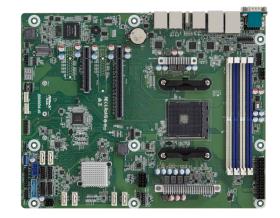
Ryzen Server Board with Quad 1GbE Network



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
1/0	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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ASRock Rack Incorporation

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