

AMD Ryzen™ Processor

Performance for Demanding Workloads

Server Motherboards

General Purpose/ GPU/ Multi-node Barebones



AMD

RYZEN

AMD

RYZEN
PRO

AMD

RYZEN

AMD
RADEON
GRAPHICS

Q4, 2023

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
Others	Number of DIMM Supported	• D4 = 4 DIMM
	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 chassis • 4U = 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

Content

AMD Ryzen™ 7000 Series Desktop Processors		
General Purpose Storage	1U4LW-B650/2L2T RPSU, 1U4LW-B650 RPSU 1U4L2E-B650 RPSU	B-01
	1U4LW-B650/2L2T, 1U4LW-B650 1U2S-B650	B-02
Multi-node	4U18N-AM5/2T, 4U18N-AM5	B-03
	1U2N2G-AM5/2T	B-04
GPU Server	1U1G-B650/2L2T, 1U1G-B650	B-05
	2U1G-B650	B-06
Server Motherboard	B650D4U-2L2T/BCM, B650D4U B650D4U3-2L2Q/BCM, B650D4U3	M-01
	AM5D4ID-2T/BCM, AM5D4ID-2L+/BCM	M-02

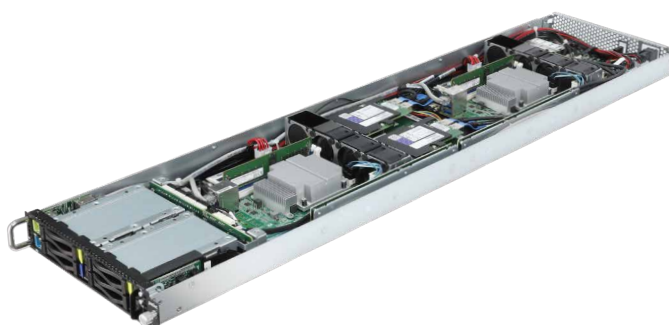
AMD Ryzen™ 5000, 4000G, 3000G, 3000 Series Desktop Processors		
General Purpose Storage	1U2E-X570 1U2-X570/2T	B-07
	1U2LW-X570/2L2T, 1U2LW-X570 1U2LW-X470	B-08
	1U4LW-X570/2L2T RPSU, 1U4LW-X570 RPSU 1U4LW-X470 RPSU, 1U4LW-X470	B-09
Multi-node	4U18N-B550/2T, 4U18N-B550	B-10
	1U2N2G-B550/2T, 1U2N2G-B550	B-11
GPU Server	1U1G-X570/2L2T, 1U1G-X570	B-12
Server Motherboard	X570D4U-2L2T, X570D4U B550D4U-2T, B550D4U	M-03
	X470D4U X470D4U2-2T	M-04
	X570D4I-2T B550D4ID-2L2T, B550D4ID	M-05
	B550D4M B550D4-4L	M-06

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.

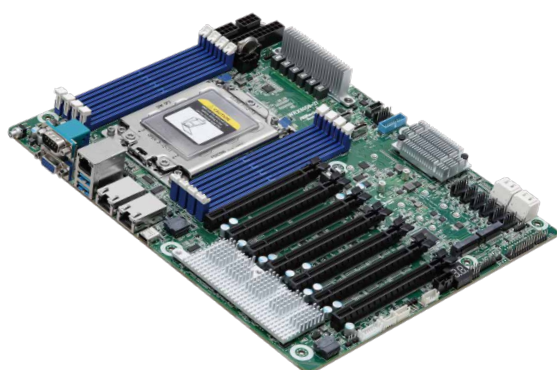


OPEN 19

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-B650/2L2T RPSU

1U4LW-B650 RPSU

General Purpose Server with Redundant PSU

Powered by AMD Ryzen 7000 Series Processors



		1U4LW-B650/2L2T RPSU	1U4LW-B650 RPSU
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 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 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 FHHL PCIe4.0 x16	
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+1, 450W PSU	
System Cooling	Fan	5 PWM Hot-swap 40x28 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	



AM5

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 Ryzen 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
	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
Drive Bay/Storage	External	2 hot-swap 2.5" NVMe ^{Note1} (PCIe4.0 x4) or 3.5" SATA drive bays 2 hot-swap 3.5" SATA drive bays
	Internal	M2_1 (PCIe5.0 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



Note1: If support 2 NVMe drive bays, only M2_2 can be used

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	
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 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 FHHL PCIe4.0 x16 via RB1UX16_G4 (Up to 75W)	
Drive Bay/ Storage	External	4 Hot-swap 3.5" SATA drive bays	
	Internal	M2_1 (PCIe5.0 x4), supports 2280/2242 form factor [CPU] M2_2 (PCIe4.0 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 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 Ryzen 7000 Series General Purpose Server
For Small and Medium-sized Business



CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 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	
	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/ Storage	External	2 hot-swap 2.5" SATA drive bays	
	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	



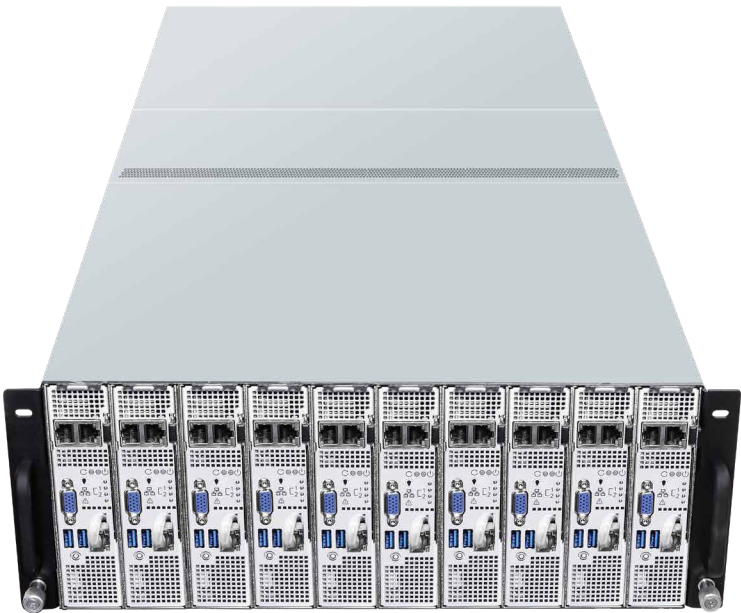
4U18N-AM5/2T

4U18N-AM5

4U Highest-density Multi-Node Server
Powered by AMD Ryzen 7000 Series Processors



AM5



2 RJ45 (10GbE)



2+2 CRPS (2000W)



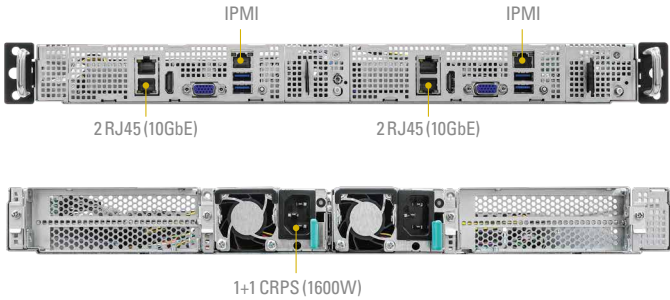
		4U18N-AM5/2T	4U18N-AM5
CPU (per node)	Socket	1 Socket AM5 (LGA 1718) for AMD Ryzen 7000 series processors	
	TDP	Up to 65W	
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)	
System	Form Factor	4U Rackmount	
Physical Status	Chassis Dimension	950 x 438 x 176 mm (37.4" x 17.2" x 6.9")	
Front Panel (per node)	Buttons	UID, Power, RESET	
	LEDs	System Fail, LAN1/LAN2, UID, Power	
	RJ45	2 RJ45(10GbE) by BCM57416 1 dedicated IPMI	2 RJ45 (1GbE) by BCM5720L 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)	
	VGA	1 DB15	
Storage (per node)	Internal	2 fixed 2.5" NVMe (PCIe4.0 x4) drive bays	
		1 M-key (PCIe4.0 x4), supports 2280 form factor [CPU]	1 M-key (PCIe4.0 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 optional accessory	

1U2N2G-AM5/2T

Density-optimized 1U 2 Node GPU Server
Powered by Ryzen 7000 Series Processors



AM5

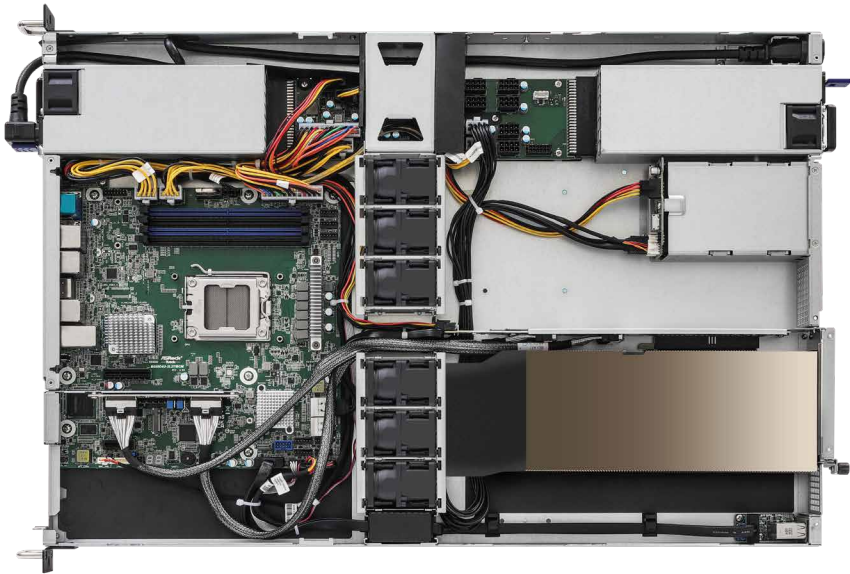


CPU (per node)	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series processors
DIMM (per node)	Slot	4 DDR5 288-pin (2DPC)
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	650 x 438 x 43.5 mm (25.6" x 17.2" x 1.7")
Front Panel (per node)	Buttons	UID w/LED, Power w/LED
	LEDs	System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

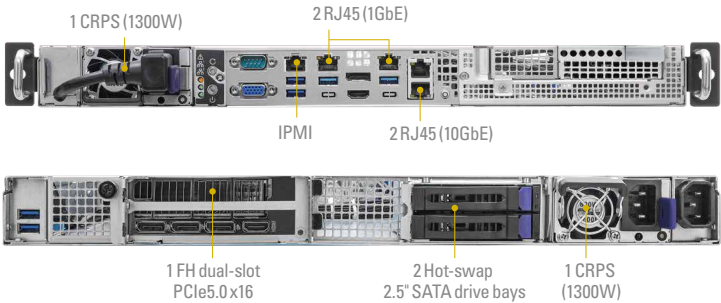
1U1G-B650/2L2T

1U1G-B650

AMD Ryzen 7000 Short-depth 1U GPU Server
for Edge Deployment



AMS



1U1G-B650/2L2T		1U1G-B650	
CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 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	
	I/O	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)		
Rear IO	USB	2 Type-A (USB3.2 Gen1)	
Expansion Slots	Front	1 FHHL PCIe4.0 x4 ^{Note1}	
	Rear	1 FHFL dual-slot PCIe5.0 x16	
Drive Bay/ Storage	External	2 Hot-swap 2.5" SATA drive bays	
	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	

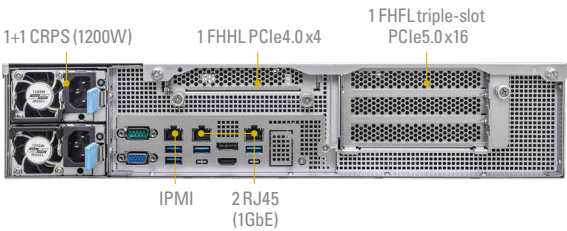
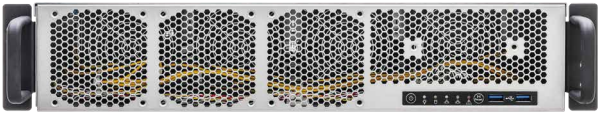
Note1: 1 FHHL PCIe4.0 x4 support requires additional PCIe4.0 x4 to x16 riser cable please contact ASRock Rack.

2U1G-B650

AMD Ryzen 7000 Short-depth 2U GPU Server
for Edge Deployment



AM5



CPU	Socket	1 Socket AM5 (LGA1718); Supports AMD Ryzen 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
	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 w/ LED, 1 DB15 (VGA), 1 DB9 (COM), 1 DisplayPort, 1 HDMI
Expansion Slots	Rear	1 FHFL triple-slot PCIe5.0 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 (PCIe4.0 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

Ryzen 7000 Series General Purpose Server Board

Equipped with Greater Dual 10GbE Networking

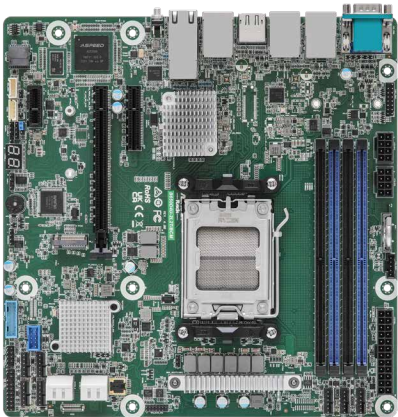


		B650D4U-2L2T/BCM	B650D4U
Form Factor		Micro-ATX (9.6" x 9.6")	
Processor System	CPU	1 Socket AM5 (LGA1718); Supports AMD Ryzen 7000 series Processors	
	FCH	AMD B650E chipset	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR5 ECC/non-ECC UDIMM, max. 5200MHz (1DPC); max. 3600MHz (2DPC)	
Expansion	PCIe slot	SLOT7: PCIe5.0 x4 [CPU] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x1 [FCH]	
	Others	OCuLink1 (PCIe4.0 x4) ^{Note1} [CPU]	
		OCuLink2 (PCIe3.0 x4 or 4 SATA 6Gb/s) ^{Note2} [FCH]	
Storage	M.2	M2_1 ^{Note1} (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	M2_1 ^{Note1} (PCIe5.0 x4), 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 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	
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



AMS



B650D4U3-2L2Q/BCM

B650D4U3

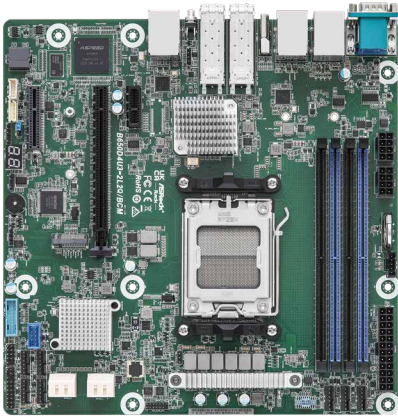
Ryzen 7000 Series General Purpose Server Board

Equipped with Dual 25GbE Networking



		B650D4U3-2L2Q/BCM	B650D4U3
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 (1DPC); max. 3600MHz (2DPC)	
Expansion	PCIe slot	SLOT7: PCIe4.0 x1 [FCH] SLOT6: PCIe5.0 x16 [CPU] SLOT4: PCIe4.0 x4 [FCH]	
	Storage	M2_1 (PCIe5.0 x4), supports 2280/2242 form factor [CPU]	M2_1 (PCIe5.0 x4), supports 2280/2242 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	
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 HDMI	
Security	TPM	Supports 13-pin (SPI) TPM modules	

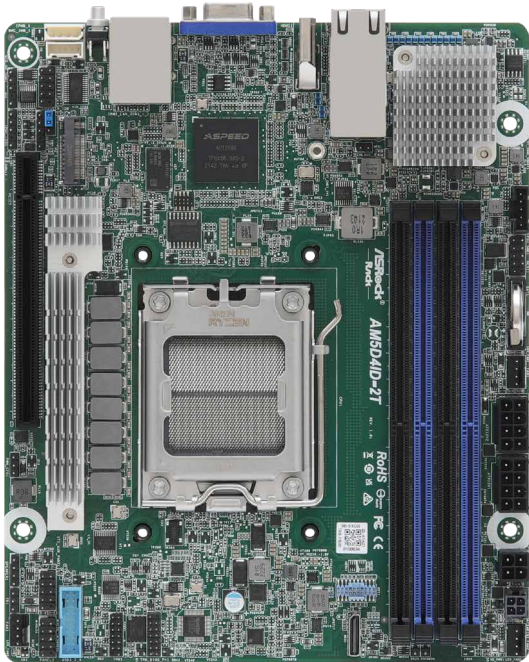
Note1: M2_2 only available on B650D4U3 SKU



AM5D4ID-2T/BCM

AM5D4ID-2L+/BCM

Ryzen 7000 Series Compact Motherboard
For Small Form Factor Applications



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 Ryzen 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 (PCIe5.0 x4), supports 2280 form factor [CPU]
Network	RJ45	2 RJ45 (10GbE) by BCM57416
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	COM port	1 (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	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
	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/	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

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	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
	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 ^{Note1}
Drive Bay/	Internal	2 fixed 3.5" SATA drive bays 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]
Storage		
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 430 x 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	
	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 ^{Note1} 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 ^{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	

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



AM4



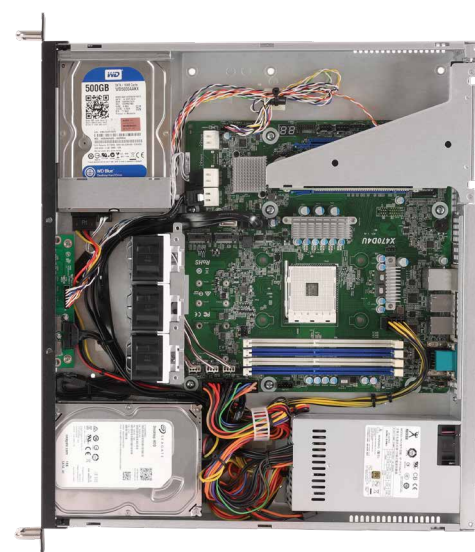
1U2LW-X470

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
	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 ^{Note1}
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 438 x 44.4 mm (21" x 17.2" 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 ^{Note1}			
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 ^{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 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 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	
	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 ^{Note1}	
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

AM4



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 (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 ^{Note1} x4)/SATA drive bays (BTO) 1 M-key (PCIe4.0 ^{Note1} 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	

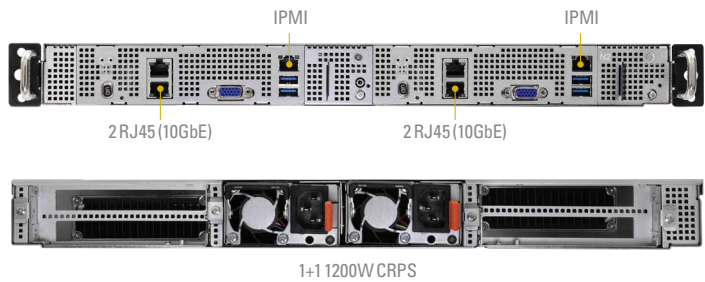
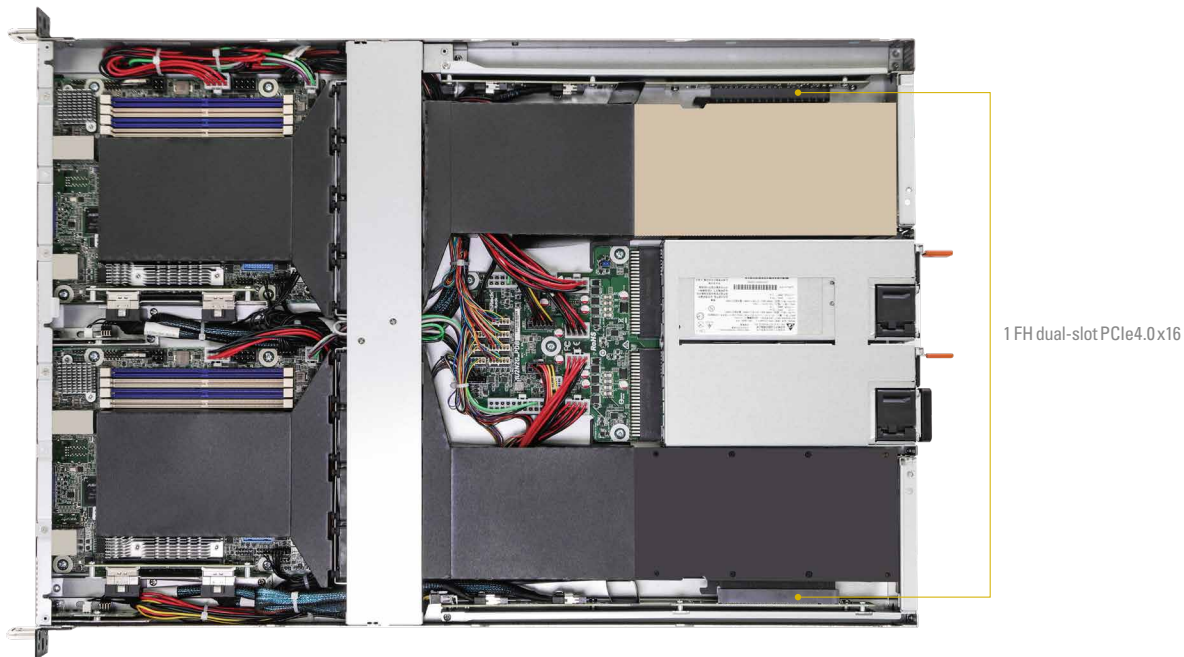
Note1: Supports PCIe3.0 when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics

1U2N2G-B550/2T

1U2N2G-B550

Density-optimized 1U 2 Node
GPU Server

AM4



		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	2 RJ45(1GbE) by Intel® i210 1 dedicated IPMI
	USB	2 USB 3.2 Gen1 ports	
	VGA	1 DB15	
Expansion Slots (per node)	Rear	1 FH dual-slot PCIe4.0 ^{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)		TPM by optional accessory	

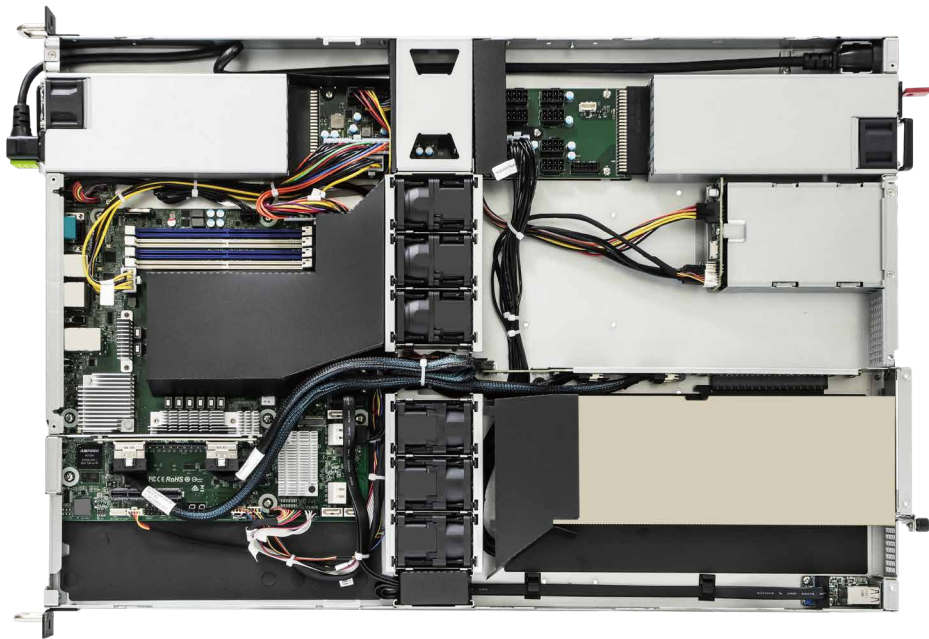
Note1: Supports PCIe3.0 when using AMD Ryzen 5000G and 4000G Series Processors with Radeon Graphics

1U1G-X570/2L2T

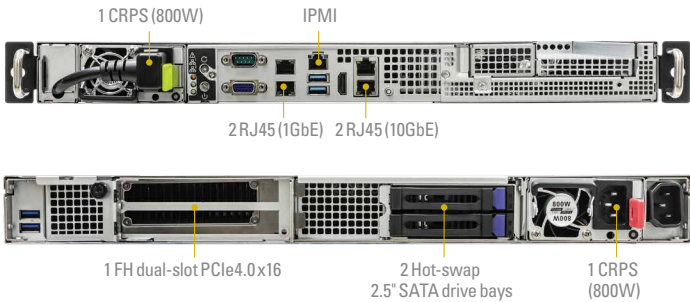
1U1G-X570

AMD Ryzen Short-depth 1U GPU Server

for Edge Deployment



AM4



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 ^{Note1}
Drive Bay/Storage	External	2 Hot-swap 2.5" SATA drive bays
	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 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

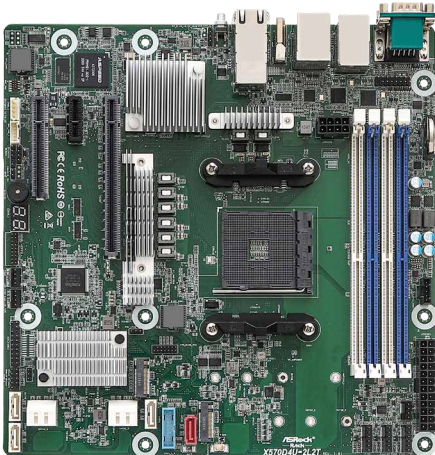
X570D4U

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 AMD X570	
	FCH		
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC ^{Note1} /UDIMMs up to 32GB each; max. 3200MHz	
	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), 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
	BMC	ASPEED AST2500: IPMI 2.0	
Management	Dedicated IPMI	1 RJ45 via Realtek RTL8211E	
	USB	2 USB3.2 Gen2 ports: 2 rear Type A 2 USB3.2 Gen1 ports: 2 via 19-pin header	
I/O	Video	1 DB15(VGA), 1 (15-pin) header, 1 HDMI ^{Note6}	
	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules	
Security			

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

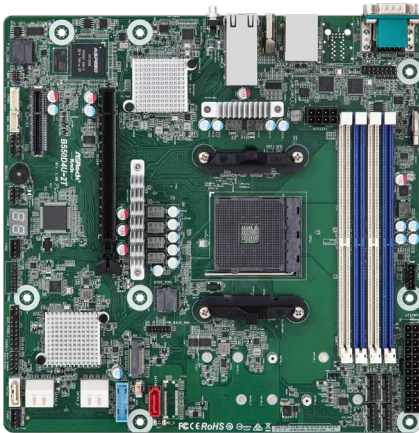
B550D4U

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 ^{Note1} Series Desktop Processors AMD B550	
	FCH		
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC ^{Note2} /UDIMMs up to 32GB each; max. 3200MHz	
	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	1 M-key (PCIe3.0 x4 or SATA 6Gb/s) and 1 M-key (PCIe3.0x2), 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
	BMC	ASPEED AST2500: IPMI 2.0	
Management	Dedicated IPMI	1 RJ45 via Realtek RTL8211E	
	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header	
I/O	Video	1 DB15(VGA), 1 HDMI ^{Note3}	
	TPM	Supports 17-pin (LPC) and 13-pin (SPI) TPM modules	
Security			

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

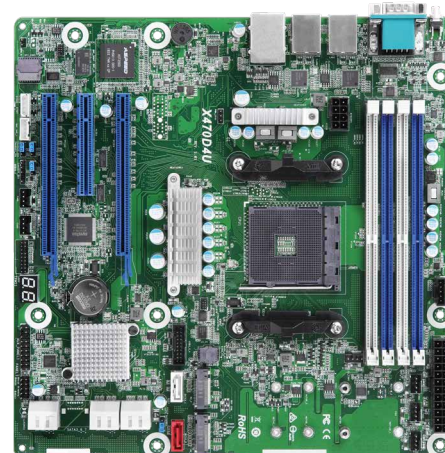
Cost-efficient AMD Ryzen Network
Server Solution



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™ 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 ^{Note1} /UDIMMs up to 32GB each; max. 2666MHz
Expansion	PCIe slot	SLOT6: PCIe3.0 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
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



AM4



X470D4U2-2T

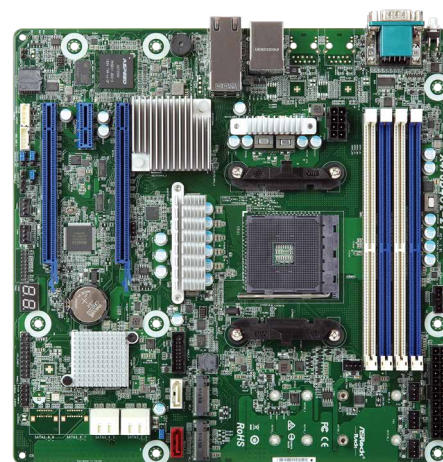
AMD Ryzen Network Server
with 10 Gb Ethernet Connectivity



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™ 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 ^{Note1} /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: PCIe3.0 x16 ^{Note2} [CPU]
		SLOT5: PCIe2.0 x1 [FCH]
		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	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



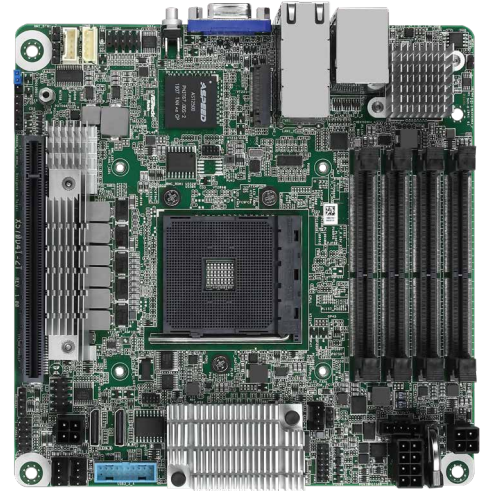
X570D4I-2T

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 ^{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	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

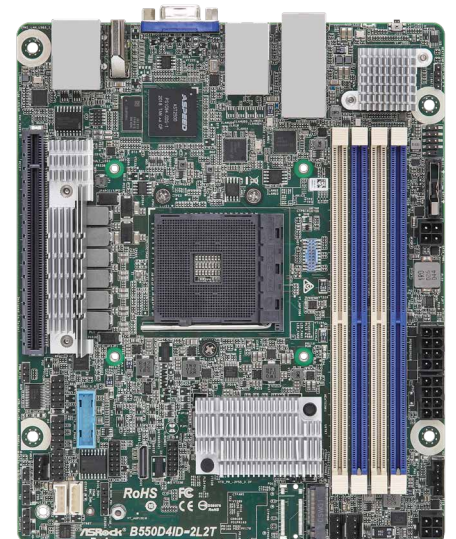
B550D4ID

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 ^{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
Storage	M.2	1 M-key (PCIe4.0 ^{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 (BTO) ^{Note5}
	SATA port	4 SATA 6Gb/s: 1 OCuLink
Network	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 ^{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 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

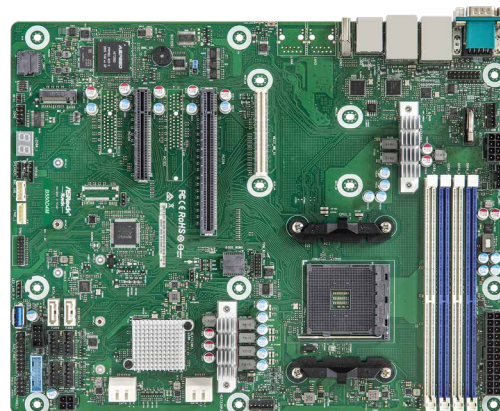


Form Factor		ATX (12" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 ^{Note1} Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	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 (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
		1 DB15(VGA), 1 HDMI ^{Note3}
	Security	TPM

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



AM4



B550D4-4L

Ryzen Server Board with Quad 1GbE Network

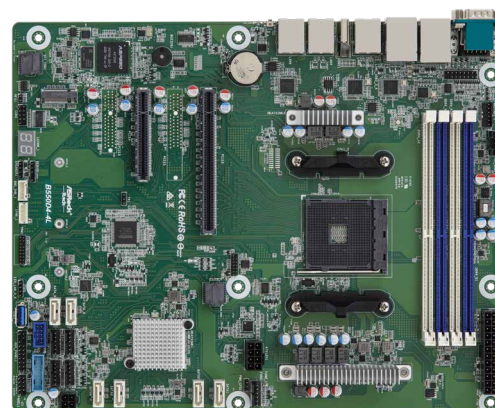


Form Factor		ATX (12" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 and 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 and 3000 Series Desktop Processors AMD Ryzen™ PRO 5000, 4000 and 3000 ^{Note1} Series Desktop Processors
	FCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC ^{Note2} /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: 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	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





Reliable Server
Advancing Technology
Considerable Design
Knowledgeable Professional

ASRock Rack Incorporation

4F., No.37, Sec.2, Zhongyang S. Rd., Beitou
District, Taipei City 112, Taiwan (R.O.C)
Tel: +886-2-5559-9600
Fax: +886-2-2893-1557
www.asrockrack.com
E-mail: asrockrack_sales@asrockrack.com

ASRock America Inc.

13848 Magnolia Ave, Chino, CA91710 U.S.A.
Tel: +1-909-590-8308
Fax: +1-909-590-1026

ASRock Europe B.V.

Bijsterhuizen 11-11 6546 AR Nijmegen
The Netherlands
Tel: +31-24-345-44-33
Fax: +31-24-345-44-38



www.asrockrack.com

The specification is subject to change without notice in advance.
ASRock Rack is the official trademark for ASRock Rack Inc., all the covers need to remain the original brand name without any modification.
All other brands, names and trademarks are the property of their respective owners.



@ASROCKRACK



ASRock Rack Inc.