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Rack

HPC. Big Data. Convergence.

Performance-optimized AMD EPYC™ Server Solutions



AMD
EPYC

November 2019

4U10G-F/ROME

4U8G-F/ROME

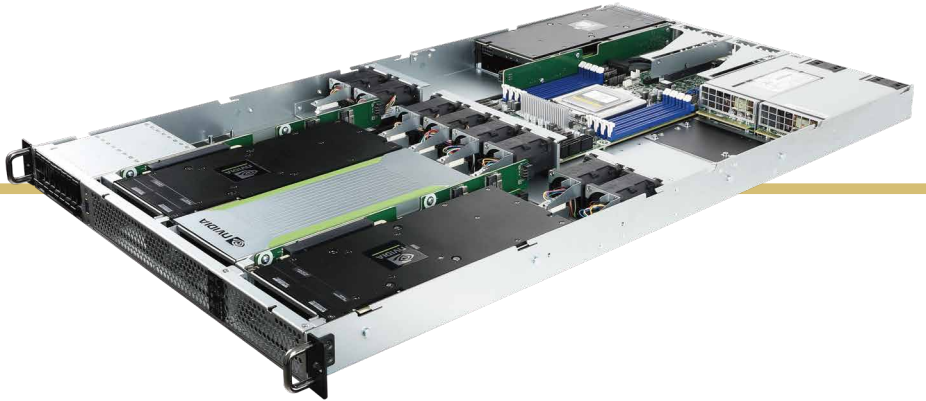
4U High-Density and Highly Scalable up to 10-GPU Server Platform



		4U10G-F/ROME	4U8G-F/ROME
System Physical Status	Form Factor	4U Rackmount	
	Chassis Dimension	438 x 845 x 176.5mm (w/Fans)	
	Support MB Size	16.53 x 14.56 (ROME2D32GM-2T)	16.53 x 14.56 (ROME2D32GM-2T)
CPU	Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors		
System Memory	32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)		
Front Panel	Buttons	Power Button , Reset Button, NMI Button, UID Button	
	LEDs	System Fault LED, HDD Activity LED	
	I/O Ports	4 x USB 3.1 Gen 1 1 x D-Sub	
	LAN Port	RJ45: 2(10G) + 1(IPMI)	
GPGPU Support	GPGPU Watts	Max 300W Per Card	
	GPU Card Quantity	10 x GPGPU/MIC Cards (Double Width)	8 x GPGPU/MIC Cards (Double Width)
External Drive Bay	Front Side Drive Bay	12 x 3.5" SATA 6Gb/s HDDs	
Power Supply	Capacity	3+1 Redundant	
	Output Watts	2000W, Platinum	
System Cooling	Fan	5 x 80*80 System Fans or 5 x 80*38 System Fans (Optional for GPU Cards w/ Active Fans)	

1U4G-ROME

1U 4-GPU Performance-Optimized Server Platform with Fully Unleashed 128 PCIe 4.0 Lanes from Single AMD EPYC 7002



		1U4G-ROME
System Physical Status	Form Factor	1U
	Chassis Dimension	438 x 880 x 43.5 mm (without ear)
	Support MB Size	Half Width (6.5" x 17.13")
CPU	Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors	
System Memory	8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)	
Front Panel	I/O Ports	1 x USB 3.1 Gen1
	LEDs	System Fail, Power, LAN1, LAN2
	Buttons	UID , Power, Reset
Rear I/O	I/O Ports	2x USB3.1 Gen1, 1x DB15
	LAN Port	RJ45: 2(1G) + 1(IPMI)
Expansion Slots	Front	3x PCIe x16 for Double-Width Cards(Max. 300W)
	Rear	1 x PCIe x16 for Double-Width Cards(Max. 300W) 2 x PCIe x16 for Low-Profile Cards
External Drive Bay	Front	8 x NF1
Power Supply	Capacity	2(1+1)
	Output Watts	2000W, Platinum
System Cooling	Fan	8 x 40*56 mm Dual-Rotor Hot-Swap Fans

2U4G-EPYC-2T

2U4G-EPYC

2U 4GPU Versatile
GPU Server Platform

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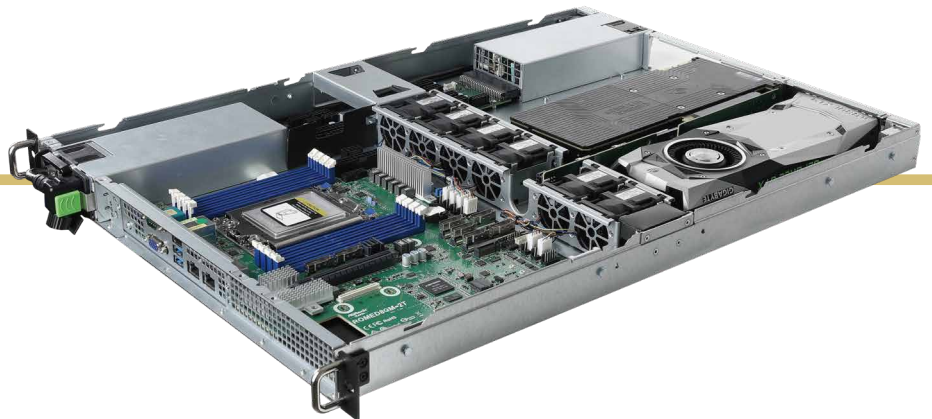


		2U4G-EPYC	2U4G-EPYC-2T
System Physical Status	Form Factor	2U Rackmount	
	Chassis Dimension	438 x 795 x 87.5 mm (without ear)	
	Support MB Size	ATX, 12" x 9.6"(EPYCD8)	ATX, 12" x 9.6"(EPYCD8-2T)
CPU		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors	
System Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)	
Front Panel	Buttons	Power Button, UID Button	
	LEDs	System LED, 2x LAN LEDs (L1, L2 LED)	
	I/O Ports	2x USB 2.0 ports	
Rear I/O	I/O Ports	1 x D-Sub, 1 x COM Port, 2 x USB3.1 Gen 1 Ports	
	LAN Port	RJ45:2(1G)+1(IPMI)	RJ45:2(10G)+1(IPMI)
GPGPU Support	GPGPU Watts	Max 300W Per Card (if Use Single Width Card, Max 150W)	
	GPU Card Quantity	4 x GPGPU/MIC Cards (Double Width) or 8 x GPU/PCIe Cards (Single Width)	
External Drive Bay	Front Side Drive Bay	4 x 2.5" SATA 6GB/s HDDs (1 x SATA3 HDD could support NVMe or SATA3 6GB/s HDDs) + 1 x NVMe SSD	
Power Supply	Capacity	2 (1+1) Redundant	
	Output Watts	2000W, Platinum	
System Cooling	Fan	6 x 80*38 System Fans	

1U2G-EPYC/2T

1U 2-GPU NVIDIA NGC-Ready for
Edge Validated Servers

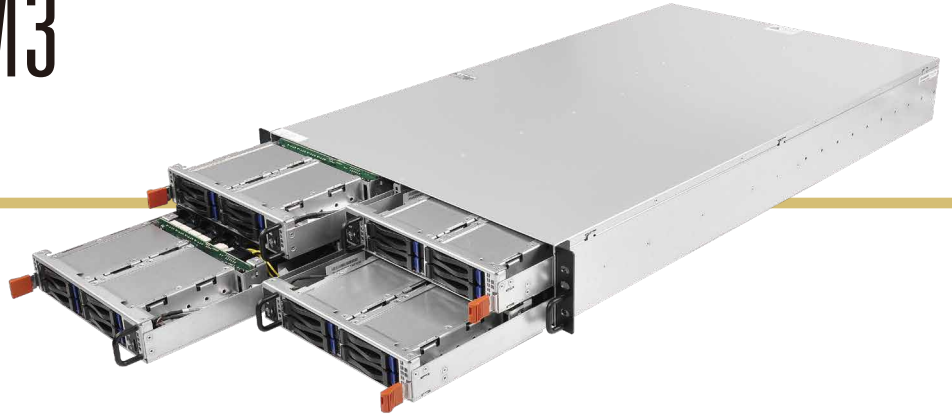
AMD
EPYC



		1U2G-EPYC/2T
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438 x 650 x 43.5 mm (without ear)
	Support MB Size	ATX, 12" x 9.6"(ROMED8QM-2T)
CPU		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors
System Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
Front Panel	Buttons	Power Button, UID Button
	LEDs	System Fault LED, 2x LAN LEDs (L1, L2 LED)
	I/O Ports	1 x D-Sub, 2x USB3.1 Gen 1 Ports, 1 x COM port
	LAN Port	RJ45:2(10G)+1(IPMI)
GPGPU Support	GPGPU Watts	Max 300W Per Card (if Use Single Width Card, Max 150W)
	GPU Card Quantity	2x PCIe x16 GPGPU/MIC Cards (Double Width & Single Width)
External Drive Bay	Front Side Drive Bay	2x 2.5" NVMe SSD/2x 2.5" SATA HDD/1 x 2.5" NVMe SSD and 2.5" SATA HDD
Power Supply	Capacity	2 (1+1) Redundant
	Output Watts	1200W, Platinum
System Cooling	Fan	6 x 40*28 System Fans

2U4N-F/ROME-M3

2U 4-Node High-Performance and High-density HPC Server

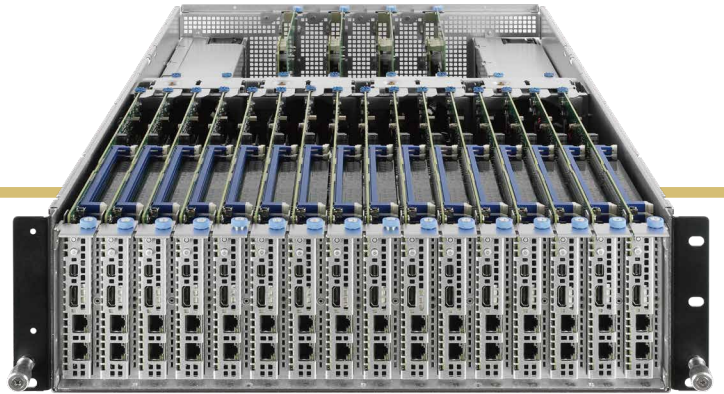


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		2U4N-F/ROME-M3
System Physical Status	Form Factor	2U Rackmount
	Chassis Model	2U4N-F
	Chassis Dimensions	778 x 448 x 86mm
	Support MB	Half-Width (20"x6.5")(ROMED8HM3 x 4)
CPU		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7001 Series Processors
System Memory Per Node		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
Front Panel	Buttons	Power On/Standby Button (Per Node) in the Front System Reset Button (Per Node) in the Front UID Button (per Node) in the Rear
	LEDs	HDD Act/Err/Locate LED Power LED (Front Panel Per Node) UID LED (Front Panel Per Node)
	I/O Ports	1 x USB 2.0 Port (Per Node)
MB Per Node	USB 3.1 Gen 1	2
	VGA	1 x Mini DisplayPort (need to bundle ASRockRack special cable for VGA)
	LAN Port	RJ45: 1(IPMI) LAN Ports with LED (ACT/LINK LED and SPEED LED)
	Expansion slot	PCIe3.0 x16 OCP Mezzanine 3.0 M.2
Drive Bay	External	4 x 2.5" HDD/SSD per node (all SATA or 2 x NVME* + 2 x SATA)
Power Supply	Output Watts	2 (1+1) 1600W Redundant
	Efficiency	Platinum
System Cooling Per Node	Front	4 x 40*56mm Fans

3U16N-EPYC3000

3U High-Density up to 16 Nodes Server Platform



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EMBEDDED

		3U16N-EPYC3000
System Physical Status	Form Factor	3U Chassis with 16 Nodes
	Dimensions	723.4 x 430 x 130.35 mm
	Support MB Size	Half-Width, 12.7" x 4.67" (EPYC3000D4Y)
Front Panel	Buttons	Power Button, UID Button (Per Node)
	LEDs	Power LED, UID LED
	I/O Ports	1 x Mini I/O Port (Per Node), 2 x RJ45 GLAN Ports (Per Node)
Storage	External	2 x M.2 (2280/22110, Supports PCIe 3.0 (x4) / SATA6.0Gb/s)
MB Physical Status	Form Factor	Full-Height Card with Gold Finger for 12V input, BMC link to CM, PCIe Gen3 x4 link MCX4*
	Dimensions	232.6 x 228.6 mm (12.74" x 4.67")
Processor System	CPU	Supports AMD EPYC™ Embedded 3000 Series Processors
	Socket	SoC
	Platform	EPYC™ Embedded 3000
	Maximum CPU Power	100W
System Memory	Capacity	4 DIMM Slots, Support Dual Channel DDR4 2666/2400/2133 Non-ECC/ECC U DIMM/R DIMM/LR DIMM
Ethernet	PCH GbE MAC	Intel® I210
Power Supply	Capacity	4 (3+1) Redundant
	Output Watts	1200W
	Efficiency	Platinum
System Cooling	Fan (Front)	4 x 80*38mm System Fans

1U10E-ROME/2T

1U 10-NVMe Highly Efficient Storage Server

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		1U10E-ROME/2T
System Physical Status	Form Factor	1U Rackmount
	Chassis Model	1U10E-ROME
	Chassis Dimension	625 x 482.6 x 44.4 mm
	Support MB Size	ATX, 12"x9.6"(ROMED8QM-2T)
CPU		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors
Memory		8 DIMM Slots, Supports Eight-Channel DDR4 2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
External Drive Bay	Front	10 x 2.5" NVMe SSDs or 10xSATA3 6.0Gb/s
Front Panel	Buttons	Power Button, Reset Button
	LEDs	Power LED, LAN LED, M.2 SATA SSD Activity
	I/O Port	1 x USB 3.1 Gen 1 Port
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port
Power Supply	Capacity	2(1+1)
	Output Watts	750W, Platinum
System Cooling	Fan	6 x 40*56 mm Dual-Rotor Hot-Swap fans

1U12XL-EPYC/2T2E

1U12XL-EPYC/2T

1U 12-Bay High-Density Web 2.0 Cloud Datacenter Storage Server

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		1U12XL-EPYC/2T	1U12XL-EPYC/2T2E
System Physical Status	Form Factor	1U Rackmount	
	Chassis Model	1U12L	
	Chassis Dimension	860 x 438.5 x 43.2 mm (33.9 x 17.2 x 1.7 inches)	
	Support MB Size	ATX, 12"x9.6"(EPYCD8-2T)	
CPU		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors	
Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)	
External Drive Bay	Front Side Drive Bay	2 HOT-Swappable Bay for 2.5" 7mm SATA/SAS HDD	2 HOT-Swappable Bay for 2.5" NVME SSD
	Front Side Backplane		Dual Single Backplanes for Each Drive
	Internal Side		12 Bay multi-function Hot-Swappable Bay for 3.5" or 2.5" SATA/SAS HDD/SSD
	Internal Side Backplane		3 x Quad Ports Backplane for Drives* *SFF-8482 connector
Front Panel	Buttons	Power On/Off Button, UID Button, System Reset Button	
	LEDs	Power Status LED, LAN Activity LED, HDD Status LED	
	I/O Port	NA	
Ethernet	Interface	10000/1000/100/10 Mbps	
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN Port by RTL8211E	
Power Supply	Capacity	1U, Redundant	
	Output Watts	700W	
System Cooling	Fan	6 x 40*28 mm System Fans	

1U4LW-X470

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



AMD
RYZEN

		1U4LW-X470
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")
	Support MB Size	MicroATX, 9.6" x 9.6" (X470D4U)
CPU		AMD AM4 Socket Ryzen™ Series CPUs (Raven Ridge and Pinnacle Ridge) and Ryzen™ 7nm CPUs
System Memory		4 DIMM Slots, Support Dual Channel DDR4 2666/2400/2133 non-ECC/ECC U DIMM
Front Panel	Buttons	Power Switch, ID Switch, System Reset, NMI Buttons
	LEDs	Power Status, HDD, LANs, System Fail Activity LEDs
	I/O Ports	2x USB 2.0 ports
MB Tray	I/O Ports	1 x D-Sub, 2x USB3.1 Gen 1 Ports, 1 x serial port
	LAN Port	RJ45: 2(1G)+1(IPMI)
External Drive Bay	Front Side Drive Bay	External: 4 x Hot-swap 3.5" HDDs or 4 x 2.5" HDDs, 1 x Slim ODD or 1 x 2.5" HDD (Optional) Internal: 2 x 2.5" HDDs
Power Supply	Capacity	Single PSU
	Output Watts	400W
System Cooling	Fan	5 x 40*28 mm PWM Easy-Swap Fans

1U2LW-X470

1U 2-Bay General Purpose Server
for Small and Medium-Sized
Business



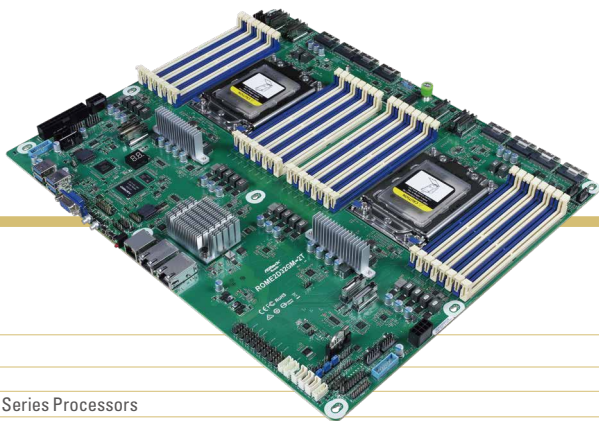
AMD
RYZEN

		1U2LW-X470
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	394 x 482.6 x 44.4 mm (15.5" x 19" x 1.75")
	Support MB Size	Micro-ATX, 9.6" x 9.6" (X470D4U)
CPU		AMD AM4 Socket Ryzen™ Series CPUs (Raven Ridge and Pinnacle Ridge) and Ryzen™ 7nm CPUs
System Memory		4 DIMM Slots, Support Dual Channel DDR4 2666/2400/2133 non-ECC/ECC U DIMM
Front Panel	Buttons	Power Switch Button, System Reset Button
	LEDs	Power Status, HDD, Lan Activity LEDs
	I/O Ports	2x USB 3.0 ports
MB Tray	I/O Ports	1 x D-Sub, 2x USB3.1 Gen 1 Ports, 1 x serial port
	LAN Port	RJ45: 2(1G)+1(IPMI)
External Drive Bay	Front Side Drive Bay	Internal: 2 x 3.5" HDD' or 1 x 3.5" HDD & 1 x 2.5" HDD External: 1 x Slim ODD
Power Supply	Capacity	Single PSU
	Output Watts	315W, Gold
System Cooling	Fan	3 x 40*28 mm PWM Easy-Swap Fans

ROME2D32GM-2T

High-Performance Dual AMD EPYC 7002 Server Board with up to 19 Slimline SAS PCIe 4.0 x8

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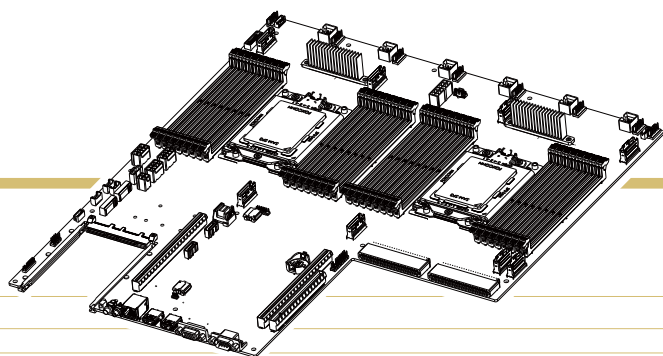


		ROME2D32GM-2T
Form Factor		L-shaped (16.53" x 14.56")
Processor Support		Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors
Chipset		N/A
Memory	Capacity	32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666 R DIMM (Modules up to 64GB Supported) and LR DIMM (Modules up to 256GB Supported), and DDR4 2933/2666 3DS (Modules up to 256GB supported)
	Voltage	1.2V
Storage	SATA Controller	AMD EPYC™:32 x SATA3 6.0 Gb/s (by 4 Slimline connector)
	Slimline	15x PCIe 4.0x8(7pcs from CPU0, 8pcs from CPU1) 4xPCIe 4.0 x8 (share with SATA3 6.0 Gb/s)
Expansion Slots		N/A
Ethernet	LAN Controller	2 x RJ45 10GBASE-T LAN by Intel® X550
	LAN Port	RJ45: 2(10G)+1(IPMI)
USB 3.1 Gen1		8(4 from Rear I/O, 4 via 2 Header)
M.2		1 (M-key, 2280/22110, Support PCIe4 only)
Mezzanine		N/A

ROME2D32LM3

Thermal Optimized Dual AMD EPYC 7002 Server Board for CPU/Memory Intensive Workloads

AMD
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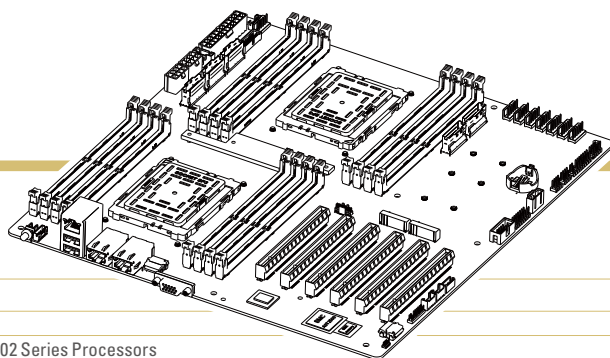


		ROME2D32LM3
Form Factor		L-shaped (19"x17")
Processor Support		Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors
Chipset		N/A
Memory	Capacity	32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666 R DIMM (up to 64GB)/LR DIMM (up to 256GB)
	Voltage	1.2V
Storage	SATA	4 x SATA3 6.0 Gb/s (4 SATA3 by miniSAS HD) + 1 SATA DOM + 1 SATA 7p + 1 x M.2 8 x SATA3 6.0 Gb/s (share w/ Slimline)
	Slimline	8
Expansion Slots		2 x PCIe 4.0 x24, 1 x PCIe 4.0 x16
Ethernet	LAN Controller	N/A, no on board LAN
	LAN Port	RJ45: 1(IPMI)
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)
M.2		2 (1 x M key, 2280/2260/2242/2230, support PCIe 3.0 x4/SATA3 6.0 Gb/s) (1 x M key, 2280/2242, support PCIe 3.0 x2 only)
Mezzanine		1 x OCP Mezzanine 3.0

ROME2D16-2T

High-Performance Dual AMD EPYC 7002 Server Board with 10GbE Networking

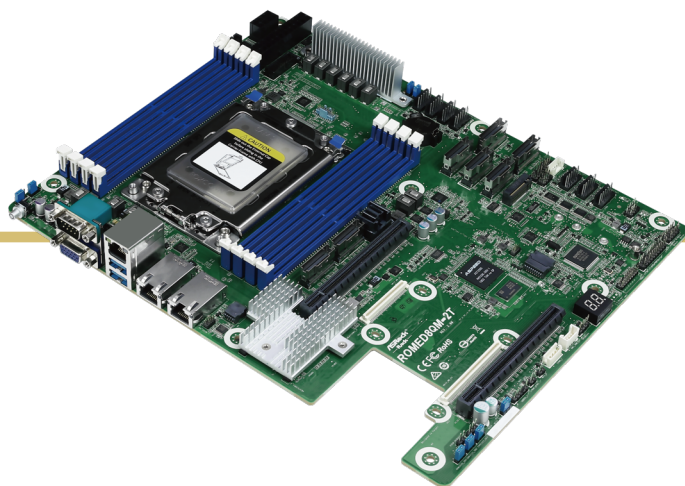
AMD
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		ROME2D16-2T
Form Factor		EEB (12" x 13")
Processor Support		Dual Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors
Chipset		N/A
Memory	Capacity	16 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
	Voltage	1.2V
Storage	SATA	16 x SATA3 6.0 Gb/s (by 2 x SlimLine, share with PCIe x8)
Expansion Slots		5 x PCIe x16
		4 x PCIe x8, 2 Slimline share with 16 x SATA3 6.0 Gb/s
Ethernet	LAN Controller	2 x RJ45 10GBASE-T LAN by Intel® X550-AT2
	LAN Port	RJ45: 2(10G)+1(IPMI)
USB 3.1 Gen 1 TYPE A		2
M.2		2 (M-key, 22110/2280/2242, support PCIe x4/SATA3 6.0 Gb/s)

ROMED8QM-2T

Single AMD EPYC 7002 ATX
Expandable Server Board with
Flexible Design for Both Rear
and Front I/O

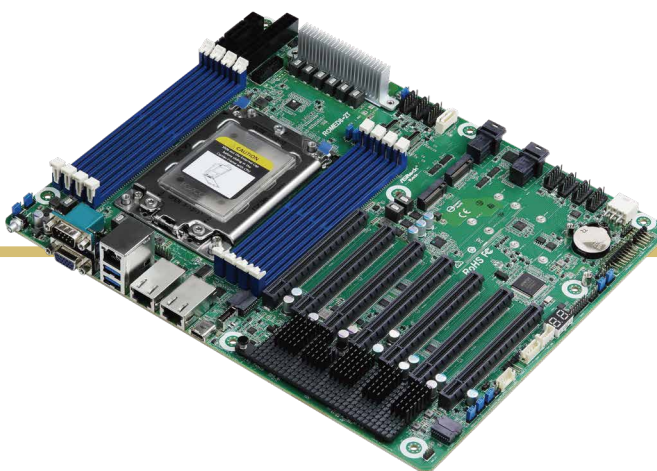


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EPYC

		ROMED8QM-2T
Form Factor		ATX (12" x 9.6")
Processor Support		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors
Chipset		N/A
Memory	Capacity	8 DIMM Slots, Supports Eight-Channel DDR4 2666/2400/2133 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
	Voltage	1.2V
Storage	SATA	4 x SATA3 6.0 Gb/s (from 1 x Mini-SAS HD)
	Slimline	7
Expansion Slots		2 x PCIe 4.0 x16
Ethernet	LAN Controller	2 x RJ45 10GBASE-T LAN by Intel® X550-AT2
	LAN Port	RJ45: 2(10G)+1(IPMI)
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)
M.2		1 (2230/2242/2260/2280, SATA3 6.0Gbs/PCIe3.0 x4)
Mezzanine		1 x OCP Mezzanine A, 1 x OCP Mezzanine B

ROMED8-2T

Single AMD EPYC 7002 ATX
Server Board with 7 PCIe 4.0
Expansion Slots and 10GbE
Networking



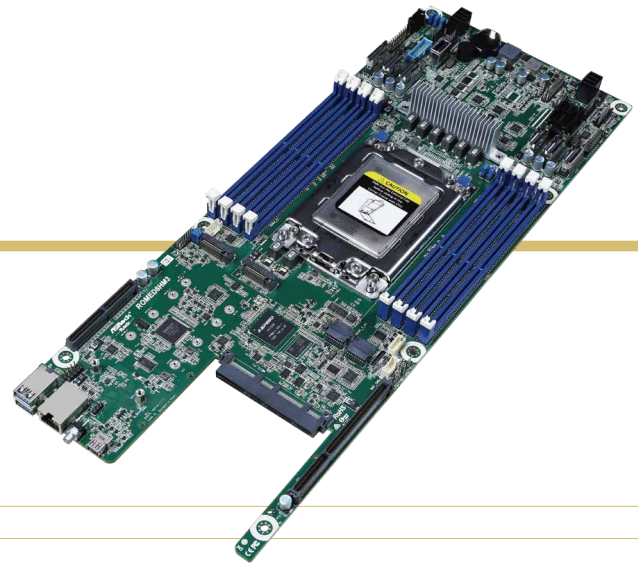
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		ROMED8-2T
Form Factor		ATX (12" x 9.6")
Processor Support		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors
Chipset		N/A
Memory	Capacity	8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
	Voltage	1.2V
Storage	SATA Controller	8 x SATA3 6.0 Gb/s (SATA_0_3: by Mini-SAS HD, SATA_3 share with SATA_8 (by BOM option), SATA_4_7: by Mini-SAS HD, share with PCIe2 by Jumper)
	OCuLink for U.2	2 (OCU1 & OCU2, share with PCIe2 by Jumper)
Expansion Slots		7 x PCIe 4.0 x16 (PCIe2: Gen4 x16 link or Gen4 x8 link + 1 x M.2 + 1 x Mini-SAS HD or no PCIe slot + 2 x OCuLink + 2 x M.2 + 2 x Mini-SAS HD (by jumper)
Ethernet	LAN Controller	2 x RJ45 10GBASE-T LAN by Intel® X550-AT2
	LAN Port	RJ45: 2(10G)+1(IPMI)
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)
USB 3.1 Gen2		3 (1 from Type C, 1 via Header)
M.2		2 (M2_1 (share with PCIe2 by Jumper): 2230/2242/2260/2280, SATA/PCIe 4.0(X4); M2_2: 2230/2242/2260/2280/22110, SATA/PCIe 4.0(X4))

ROMED8HM3

Half-Width Single AMD EPYC 7002
Server Board with Balancing
Throughput between Rear and
Front I/O Expansions

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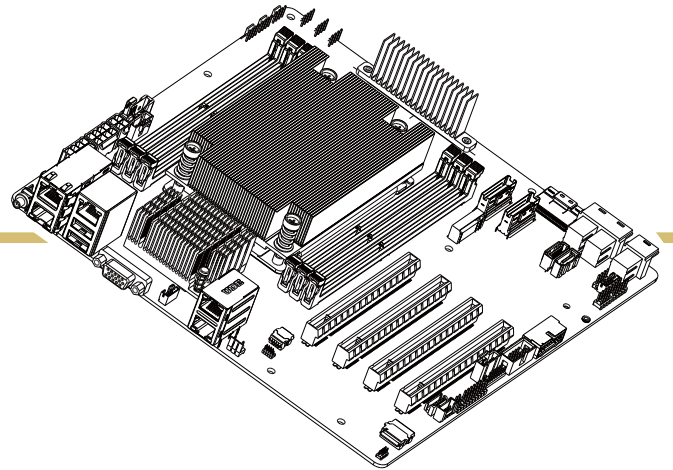


		ROMED8HM3
Form Factor		Half-Width (6.5" x 17")
Processor Support		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7001 Series Processors
Chipset		N/A
Memory	Capacity	8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
	Voltage	1.2V
Storage	SATA	8 x SATA3 6.0 Gb/s (from 2 x Mini-SAS HD), 2 x M.2
	Slimline	6 (PCIe 4.0 x8)
	OCuLink	1 (PCIe 4.0 x4)
Expansion Slots		1 x PCIe4.0 x24, 1 x PCIe 4.0 x16
Ethernet	LAN Controller	N/A, no on board LAN
	LAN Port	RJ45: 1(IPMI)
VGA port		1 x Mini DisplayPort (to D-Sub)
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)
M.2		2 (2280/22110/30110, Support SATA 6.0Gb/s or PCIe3.0 x4)
Mezzanine		1 x OCP Mezzanine 3.0

ROMED6U-2L2T

Single AMD EPYC 7002 MicroATX
Server Board

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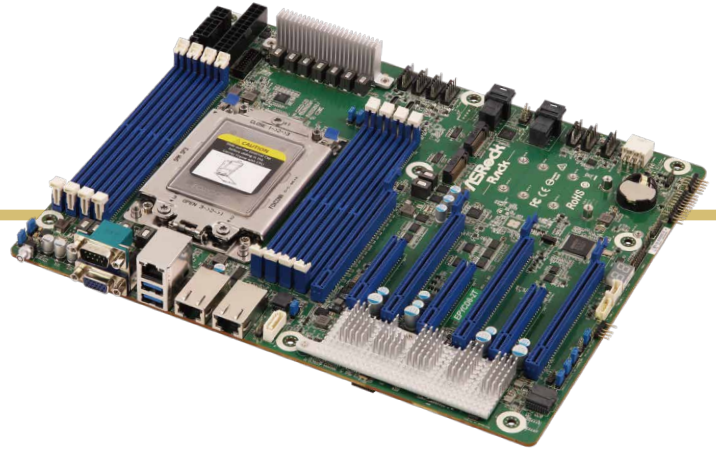


		ROMED6U-2L2T
Form Factor		MicroATX(9.6x9.6")
Processor Support		Single Socket SP3(LGA4094) Supports AMD EPYC 7002™ Series Processors
Chipset		N/A
Memory	Capacity	6 DIMM Slots, Supports Eight-Channel DDR4 3200/2933/2666/2400 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
	Voltage	1.2V
Storage	SATA Controller	2 x SATA3 6.0 Gb/s 2 x Mini-SAS HD(by 8x SATA3 6.0 Gb/s)
	Slimline	2 (PCIe 4.0 x8) Support PCIe hot-plug 2 (PCIe 4.0 x8/8 x SATA 6Gb/s) Support PCIe Hot-Plug
	OCuLink	N/A
	Expansion Slots	4 x PCIe 4.0 x16
Ethernet	LAN Controller	2 x RJ45 10GBASE-T by Intel® X550 + 2 x RJ45 GLAN by Intel® i210
	LAN Port	RJ45: 2(1G)+2(10G)+1(IPMI)
USB 3.1 Gen 2 Type A		2
USB 2.0		1 (Support 2x USB 2.0 Header)
M.2		2 (2280, Support SATA 6.0Gb/s or PCIe4.0 x4)

EPYCD8-2T

EPYCD8

Single AMD EPYC 7001 Series Processors-Optimized ATX Server Board



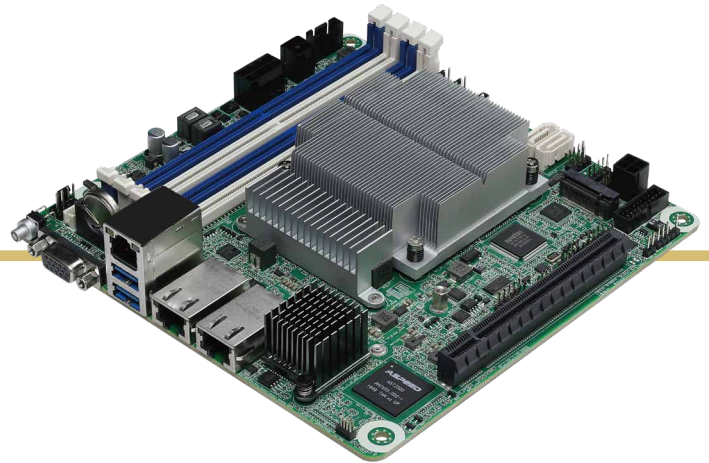
		EPYCD8	EPYCD8-2T
Form Factor		ATX (12" x 9.6")	
Processor Support		Single Socket SP3(LGA4094) Supports AMD EPYC™ 7002/7001 Series Processors	
Chipset		N/A	
Memory	Capacity	8 DIMM Slots, Supports Eight Channel DDR4 3200/2933/2666 R DIMM (Modules up to 32GB Supported), and LR DIMM (Modules up to 128GB Supported)	
	Voltage	1.2V	
Storage	SATA Controller	9 x SATA3 6.0 Gb/s (from 2 x Mini-SAS HD and 1x SATA DOM Port)	
Expansion Slots		4 x PCIe 3.0 x16, 3 x PCIe 3.0 x8	
Ethernet	LAN Controller	2 x RJ45 GLAN by Intel® i350	2 x RJ45 10GBASE-T by Intel® X550
	LAN Port	RJ45: 2(1G)+1(IPMI)	RJ45: 2(10G)+1(IPMI)
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)	
M.2		1 (2230/2242/2260/2280, SATA/PCIe(x4)) 1 (2230/2242/2260/2280/22110, SATA/PCIe(x4))	

EPYC3251D4I-2T

EPYC3101D4I-2T

EPYC3000D4I2-2T

AMD EPYC Embedded 3000 SoC-Optimized Server Board for Networking, Storage, and Edge Computing Devices

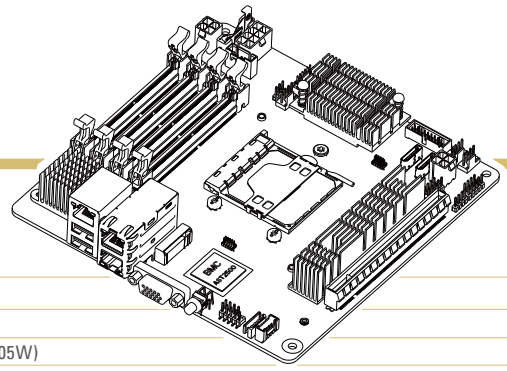


		EPYC3251D4I-2T	EPYC3101D4I-2T	EPYC3000D4I2-2T
Form Factor		Mini-ITX (6.7" x 6.7")		
Processor Support		AMD EPYC™ Embedded 3251 Series Processor (Max. 100W)	AMD EPYC™ Embedded 3101 Series Processors (Max. 100W)	AMD EPYC™ Embedded 3000 Series Processors(SP4)
Socket		SoC		
Memory Capacity		4 DIMM Slots, 2DPC Supports Dual Channel DDR4 2666/2400/2133 non-ECC& ECC U DIMM (up to 64GB), RDIMM (up to 128GB)		4 DIMM Slots, 1DPC Supports Dual Channel DDR4 2666/2400/2133 non-ECC& ECC U DIMM (up to 64GB), RDIMM (up to 128GB)
Storage		6 x SATA3 6.0 Gb/s (4 x SATA from OCulink, 2 x SATA3 6.0 Gb/s)		2 x SATA 6Gb/s; one SATA share with M.2 SATA device 3 x OCuLink: PCIe 3.0 x4/12 x SATA 6.0Gb/s
Expansion Slots		1 x PCIe 3.0 x16		
Ethernet	LAN Controller	2 x RJ45 10GBASE-T by Intel® X550-AT2		
	LAN Port	RJ45: 2(10G)+1(IPMI)		
System Management		ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0 1 x Realtek RTL8211E for Dedicated Management GLAN PIN		
USB3.1 Gen 1		4(2 from Rear I/O, 2 via header)	4(2 from Rear I/O, 2 via header)	4 (2 from Rear I/O, 2 via Header)
M.2		1x M-key(2280/22110, supports SATA3 and PCIe 3.0 x4)	1 x M-Key (PCIe3.0 x4 or SATAIII 6.0 Gb/s); Supports 22110/2280 Form Factor	1 x M-Key (PCIe3.0 x4 or SATAIII 6.0 Gb/s); Supports 2280

X570D4I-2T

AMD Ryzen 3000 Performance-Optimized Server Motherboard

AMD
RYZEN



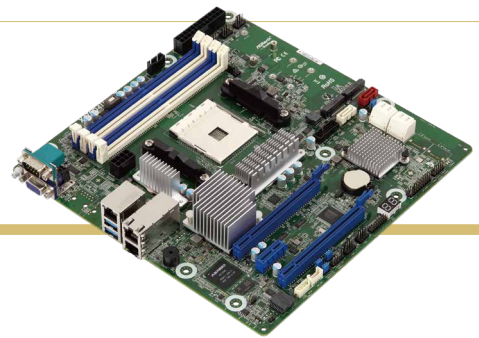
		X570D4I-2T
Form Factor		Mini-ITX (6.7" x 6.7")
Processor Support		AMD Ryzen™ 2nd & 3rd Generation Series Processors(Max 105W)
Chipset		AMD Premium X570
Memory Capacity		4 DIMM Slots, Supports Dual Channel DDR4 2933/2666/2400 ECC & Non-ECC SO-DIMM (Max. 64GB)
Storage	SATA Controller	AMD X570:8 x SATA3 by OCuLink
Expansion Slots		1x PCIe 4.0x16(Matisse) When use Picasso/Raven CPU, only PCIe 3.0x8, and use Pinnacle CPU PCIe 3.0x16
Ethernet	LAN Controller	2 x RJ45 10GLAN by Intel® X550-AT2
	LAN Port	RJ45: 2(10G)+1(IPMI)
System Management	BMC Controller	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	IPMI Dedicated LAN	1 x Realtek RTL8211E for Dedicated Management GLAN PIN
USB3.1 Gen 1		1 (Support 2 USB 3.0)
USB3.1 Gen 2		2
M.2		1 (M-key, only 2280, Support PCIe 4.0 x4 or SATA3 6.0Gb/s) *When use Pinnacle/Picasso/Raven CPU, only PCIe3.0 x4

X470D4U2-2T

X470D4U

AMD Ryzen-Optimized General Purpose Server Board

AMD
RYZEN

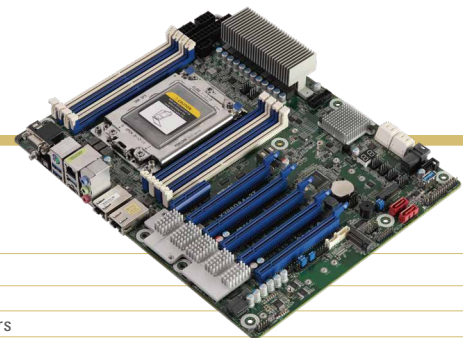


		X470D4U	X470D4U2-2T
Form Factor		MicroATX (9.6"x9.6")	
Processor Support		AMD AM4 Socket Ryzen™ PRO/ Ryzen™ 2nd and 3rd Generation Series Processors	AMD AM4 Socket PGA1331 Ryzen™ Series CPUs (Raven Ridge and Pinnacle Ridge) and Ryzen™ 7nm CPUs
Chipset		AMD Promontory X470	
Memory Capacity		4 DIMM Slots, Supports Dual Channel DDR4 2666/2400/2133 non-ECC& ECC U DIMM (Max. 128GB)	4 DIMM Slots, Supports Dual Channel DDR4 2666/2400/2133 non-ECC& ECC U DIMM (Max. 256GB)
Storage	SATA Controller	6 x SATA3 6.0 Gb/s (1 x SATA DOM port)	
	Additional	ASMedia 1061: 2 x SATA3 6.0Gb/s	
Expansion Slots		2 x PCIe3.0 x16, 1 x PCIe3.0 x8	2 x PCIe3.0 x16, 1 x PCIe 2.0 x1
Ethernet	LAN Controller	2 x RJ45 GLAN by Intel® I210AT	2 x RJ45 10GBASE-T by Intel® X550-AT2
	LAN Port	RJ45: 2(1G)+1(IPMI)	RJ45: 2(10G)+1(IPMI)
System Management	BMC Controller	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for Dedicated Management GLAN PIN	
USB3.1 Gen 1		4 (2 from Rear I/O, 2 via Header)	
M.2		2 (M2_1: 2242/2260/2280/22110, PCIe(X4); M2_2: 2242/2260/2280/22110, SATA/PCIe(X2))	2 (2242/2260/2280/22110, Supports SATA3 and PCIe 3.0 x2 or Supports PCIe 2.0 x4 only)

X399D8A-2T

AMD Ryzen Threadripper-Optimized Versatile and Multi-PCIe ATX Server Board with 10GbE Networking

AMD
RYZEN
THREADRIPPER



		X399D8A-2T
Form Factor		ATX (12" x 9.6")
Processor Support		AMD TR4 Socket 4094P Ryzen™ Threadripper™ Series Processors
Chipset		AMD X399
Memory Capacity		8 DIMM Slots, Supports Quad Channel DDR4 3600+(OC)/3200(OC)/2933(OC)/2666/2400/2133 ECC U DIMM (Max. 256GB)
Storage	SATA Controller	X399: 8 x SATA 6Gb/s; 2 x SATA DOM, 4 via Mini-SAS HD, 2 x SATA 7-pin (One Shared with M.2)
	Additional	ASMedia 1061: 2 x SATA3 6.0Gb/s
Expansion Slots		5 x PCIe 3.0 x16, 1 x PCIe 3.0 x4
Ethernet	LAN Controller	2 x RJ45 10GBASE-T by Intel® X550-AT2
	LAN Port	RJ45: 2(10G)+1(IPMI)
USB3.1 Gen 1		5 (2 from Rear I/O, 2 via Header), 1 Type A
USB3.1 Gen 2		2 (1 Type A, 1 Type C from Rear I/O)
USB2.0		1 (support 2 USB2.0)
M.2		1x M-key (PCIe3.0 x4 or SATA 6Gb/s shared with SATA port) Support 2230/2242/2260/2280/22110 1x M-key (PCIe3.0 x4) Support 2230/2242/2260/2280/22110 (Reserved BOM Option for OCuLink)



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