ASRock Rack

HPC. Big Data. Convergence.

Sept. 2021

Product Guide

HPC / Cloud Computing / Storage / Embedded / Open19 Products

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

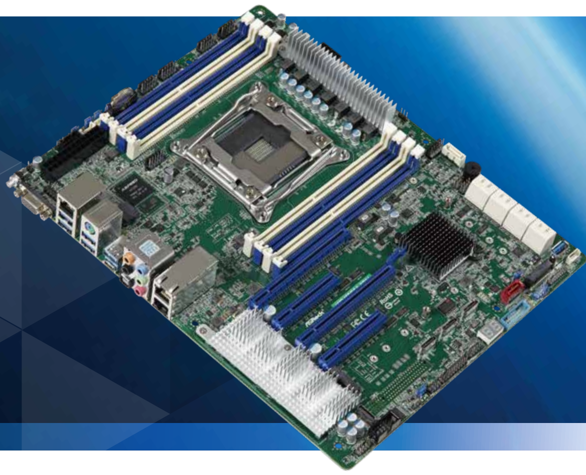
Leveraging the Versatile Portfolio, ASRock Rack Barebones Series provide the solutions for Cloud, AI, Deep Learning and 5G with high density and multi-node of computing, storage and networking with lower TCO and greater efficiency.

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.

Content

Server Platform Naming Rule — 02

SERVER MOTHERBOARD

Intel® Xeon E-2300
E3C256D4U-2L2T, E3C252D4U-2T, E3C252D4U — S-01
E3C256D2I — S-02
E3C256D4I-2T — S-03
E3C256D4ID-2T — S-04

Intel® Xeon E-2200
E3C246D4U / E3C242D4U — S-05
E3C246D4U2-2L2T / E3C246D4U2-2T / E3C242D4U2-2T — S-06
E3C246D4M-4L / E3C242D4M-4L — S-07
E3C246D4I-2T — S-08
E3C246D2I / E3C242D2I — S-09

3rd Gen Intel® Xeon® Scalable
SPC621D8HM3 — S-10
SPC621D8-2L2T / SPC621D8-2T / SPC621D8 — S-11
SPC621D16QM32 — S-12
SP2C621D16N — S-13
SP2C621D16H-2T2O — S-14
SP2C621D32LM3 — S-15
SP2C621D32GM-2T — S-16

Intel® Xeon Scalable
EP2C622D24LM / EP2C621D24LM-AB — S-17
EP2C622D24LM2 — S-18
EP2C621D16GM / EP2C62D16GM-2T — S-19
EP2C621D16GM2-2T — S-20
EP2C622D16-2T — S-21
EP2C621D16HM-AB / EP2C622D16HM-C — S-22
EP2C621D16HM2-M3 — S-23
EP2C621D16-4LP — S-24
EP2C622D16NM — S-25
EP2C622D16FM — S-26
EP2C621D8-16R / EP2C621D8 — S-27
EPC621D8A — S-28
EPC621D4I-2M / EPC621D6I — S-29
EPC621D6U-2T16R / EPC621D6U-16R / EPC621D6U-2T — S-30

Intel® Xeon E3
C236 WSI4-85 / C236 WSI4-85L / C236 WSI4-65L — S-31

Intel® Xeon W-1200
W480D4U — S-32

Intel® Core 10
Z490D4U-2L2T — S-33

Intel® Xeon D
D2143D8UM2 / D2123D8UM2 — S-34
D2163D4I2-2T / D2143D4I2-2T — S-35
D1653ND4I-2L2T / D1622D4I — S-36
D1541D4U-2T8R / D1541D4U-2O8R / D1541D4U-2L+ / D1521D4U-2L+ — S-37
D1541D4I-2L2T / D1541D4I / D1521D4I — S-38

Intel® Atom C3000
C3758D4U-2TP / C3558D4U-2OP — S-39
C3758D4I-4L / C3558D4I-4L / C3338D2I-4L — S-40

AMD Ryzen™ Threadripper Gen 3.0
TRX40D8-2N2T — S-41

AMD Ryzen™ Threadripper Gen 1.0
X399D8A-2T — S-42

AMD Ryzen
X470D4U — S-43
X470D4U2-2T — S-44
X570D4U-2L2T — S-45
X570D4I-2T — S-46
B550D4M — S-47
B550D4-4L — S-48

AMD EPYC 3000
EPYC3251D4I-2T / EPYC3101D4I-2T — S-49
EPYC3451D4I2-2T — S-50
EPYC3451D4U-2T2O8R — S-51

AMD EPYC 7000
ROME2D32LM3 — S-52
ROME2D32GM-2T — S-53
ROME2D16-2T — S-54
ROME2D16HM3 — S-55
ROMED8QM-2T — S-56
ROMED8HM3 — S-57
ROMED8-2T — S-58
ROMED4ID-2T — S-59
ROMED6U-2L2T — S-60
ROMED16QM3 — S-61
EPYCD8-2T / EPYCD8 — S-62

WORKSTATION MOTHERBOARD

Intel® Xeon W-3200
EP2C621D12 WS — W-01

Intel® Xeon W-2200, Core i9
WC621D8A-2T — W-02
C422 WS/IPMI , X299 WS/IPMI — W-03
C422 WSI/IPMI , X299 WSI/IPMI — W-04
WC422D8A-2T , WC422D8A-2T/U — W-05

Intel® Xeon W-1200
W480M WS — W-06
W480D2I — W-07
Z490D2I — W-08

Intel® Xeon E-2200
C246 WS — W-09
C246M WS — W-10
C246 WSI — W-11

ACCESSORY KITS

Ethernet Mezzanine Card
MP-1543R4/MP-557R2/MP-4227R2/MP-4223R4 — A-01
M599/M599S/M540/M350/M350R/M550R2E — A-02
M710/M710S/MCX3/M41202R/MX710R/M710DA4 — A-03

Storage Mezzanine Card
M3008/M3108/M3616 — A-04

Riser card
1U12LIW_RB1/RB1UX16/RB1X16L/RB4M2/RB2M2/RB1U2M2 — A-05

Adapter Card
M2-HD — A-06

BAREBONE

General Purpose
1U2LW-C242, 1U2LW-X470 — B-01
1U2E-C252 — B-02
1U2FH-4L/C622 — B-03
1U8S-C242 — B-04
1U4LW-C242 RPSU, 1U4LW-C242, 1U4LW-X470 — B-05
1U4LW-X570/2L2T RPSU, 1U4LW-X570/2L2T — B-06
1U4LW-C252 — B-07
RM138-C622LM/4L — B-08
RM138-C622LM/10S — B-09
2U12L2S-ROME/2T — B-10
2U2E-F/ICX2 — B-11
2U2E-F/ROME2 — B-12
RM237-C622LM/RM23712-C622LM/22E — B-13
RM23724-C622LM/22E — B-14

General Purpose Storage
1U10E-ROME/2T — B-15
1U12XL-EPYC/2T, 1U12XL-EPYC/2T2E — B-16
1U12XL-C622 RPSU — B-17
4U36L2S-C621, 4U36L2S-C612 — B-18
4U36L2E-ROME2/2T — B-19
4U100-C612 — B-20

GPU server
1U1G-WC422/2T — B-21
1U1G-X570/2L2T — B-22
1U2G-ROME/2T — B-23
1U4G-ROME — B-24
2U2G/C622 — B-25
2U4G-ROME/2T — B-26
2U4G-EPYC-2T, 2U4G-EPYC — B-27
2U4G-C621WS — B-28
3U4X-ROME/2T — B-29
3U8G+/C621 — B-30
3U8G+/C621GM2 — B-31
3U10G-F/C621 — B-32
4U4G-EPYCD8-2T — B-33
4U8G-ROME2/2T, 4U10G-ROME2/2T — B-34
4U8G-ICX2/2T, 4U10G-ICX2/2T — B-35
7U8X-ROME2/2T — B-36
RM237-C622LM2 — B-37

Multi-node
2U4N-F/C622, 2U4N-F/C621-M3, 2U4N-F/C621AB — B-38
2U4N-F/ROME-M3 — B-39
3U16N, 3U16N-C242, 3U16N-EPYC3251 — B-40

OPEN 19

Open 19
1U-Open19-c3.small.x86 — O-01
1U-Open19-m3.large.x86 — O-02
1U-Open19-c3.medium.x86 — O-03
1U-Open19-t3.small.x86 — O-04
8RU cage / 12RU cage — O-05

Server Platform Naming Rule

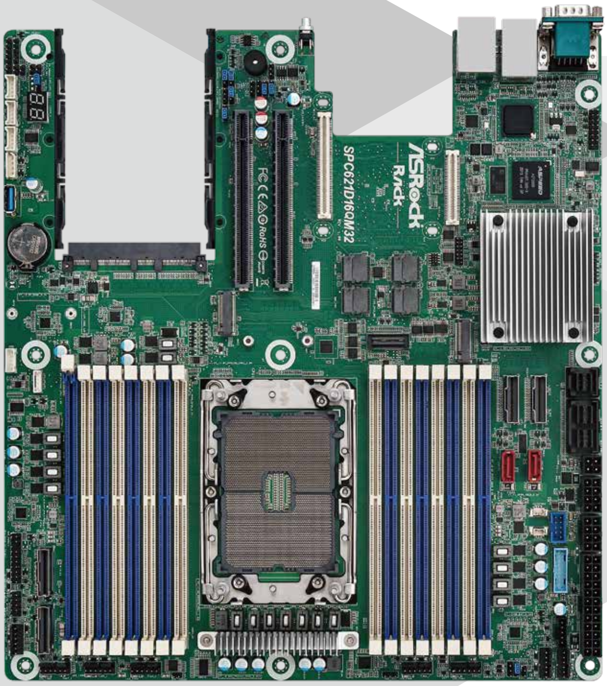
EP2C612D16NM-2T8R

Character	Representation	Options
1st + 2nd	CPU Type	• EP = Intel® E5-2600 series/ Intel® Xeon® Scalable Processors • E3 = Xeon® E3-1200 series • D =Intel® Xeon® D Processors
3rd	Number of CPU Supported	• 2 = Dual • NA = Single
4th ~ 6th	Chipset	• C612 = Intel C612 chipset • C622 = Intel C622 chipset • C621 = Intel C621 chipset • C224 = Intel C224 chipset • C226 = Intel C226 chipset • C236 = Intel C236 chipset • C422 = Intel C422 chipset • X299 = Intel X299 chipset
others	Feature	• 2T = 2 x 10G Base-T LAN • 2O = 2 x 10G optical LAN (SFP+) • 2L+ = 2 x GLAN • 8R = 8-port RAID • 14S = 14 SATA ports • 16R = Broadcom SAS 3616 Controller • 16RE = 16-port RAID Expander • 44E = Intel E3-1585 v5 CPU on board • A = Audio • C = Cost effective • G = GPU server • L = L-shaped • LP = with GLAN PHY Controller • M = Mezzanine card support • MP = Mezzanine PHY card support • N = non-shading • S6 = LSI SAS2 6Gbps • SM = Storage Mezzanine Card support • V or V+ = VGA only (AST1300) • WS = workstation • AB = with Mezzanine Type A/B • IPMI = with IPMI
	DIMM support	• D4 = 4 DIMM • D8 = 8 DIMM • D16 = 16 DIMM • D24 = 24 DIMM • D6 = 6 DIMM
	Reserved	• H = Half-width size • U = uATX(9.6"x9.6") • I = Mini-ITX size • F = Front I/O • -N = without Front PCIE

2U12L6SW-2TS6

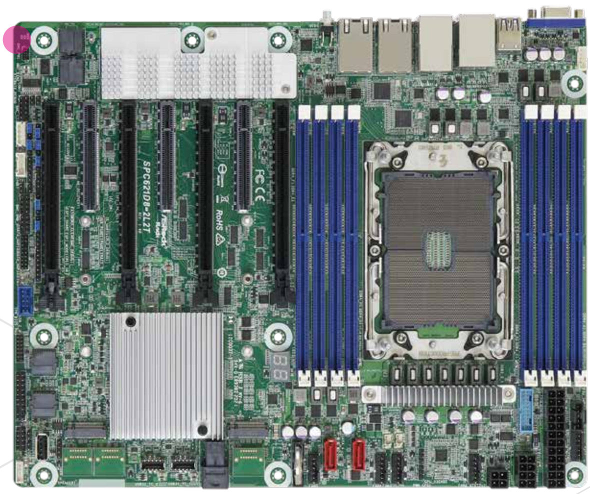
Character	Representation	Options
1st + 2nd	System Height	• 1U = 1U chassis • 2U = 2U chassis • 3U = 3U chassis • 4U = 4U chassis
3rd~7th	HDD Bay	• 12L6S = 12 x 3.5'' HDD + 6x 2.5'' HDD • 12L = 12 x 3.5'' HDD ⋮ L : 3.5'' HDD Bay, S: 2.5'' HDD Bay

Server
Motherboards



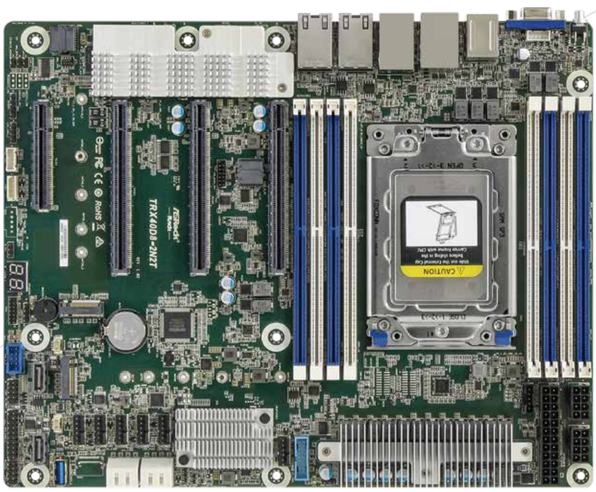
SPC621D16QM32

Memory Enhanced 16x DIMMs Single-socket Server Board
for Most Variety of I/O Expansions



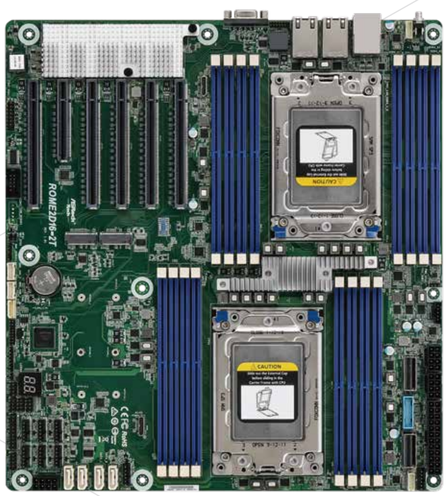
SPC621D8-2L2T

Network and Performance Enhanced Server Motherboard Powered by Intel Xeon
Scalable Processors



TRX40D8-2N2T

3rd Gen AMD Ryzen Threadripper Server Motherboard
with dual 10GbE and IPMI



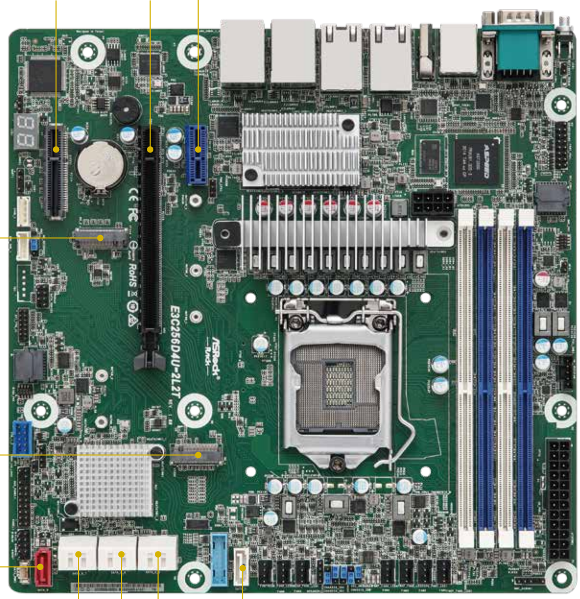
ROME2D16-2T

Mainstream Dual Socket Server Board Powered by AMD EPYC™ 7003
Series processors

E3C256D4U-2L2T

E3C252D4U-2T

E3C252D4U



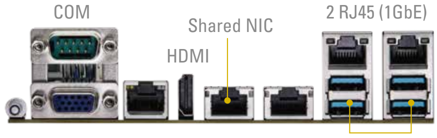
DDR4 3200 — 3200

PCI-E 4.0 — PCI-E 4.0

10G — 10Gbase-T

Application

- General-purpose server
- Web hosting
- SMB
- Entry-level enterprise server



		E3C256D4U-2L2T	E3C252D4U-2T	E3C252D4U
Form Factor		Micro-ATX (9.6'' x 9.6'')		
Processor System	CPU	1 Socket H5 (LGA1200); Supports Intel® Xeon® E-2300 and Pentium® Series Processors		
	PCH	Intel® C256	Intel® C252	
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/non-ECC UDIMM up to 32GB each, max. 3200MHz Note1		
Expansion	PCIe slot	SLOT7: PCIe3.0 x1 [PCH] SLOT6: PCIe4.0 x16 Note2 [CPU] SLOT4: PCIe4.0 x4 Note3 [CPU]		
Storage	M.2	1 M-key Note4 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4), supports 2280/2260 form factor [PCH]	1 M-key Note4 (PCIe3.0 x2 or SATA 6Gb/s); support 22110/2280/2260 form factor [PCH]	
	SATA port	8 SATA 6Gb/s: 7 SATA 7-pin, 1 M.2 or SATA DOM Note4	6 SATA 6Gb/s: 5 SATA 7-pin, 1 M.2 or SATA DOM Note4	
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210	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	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 rear DB9		
Security	TPM	Supports 13-pin (SPI) TPM modules		

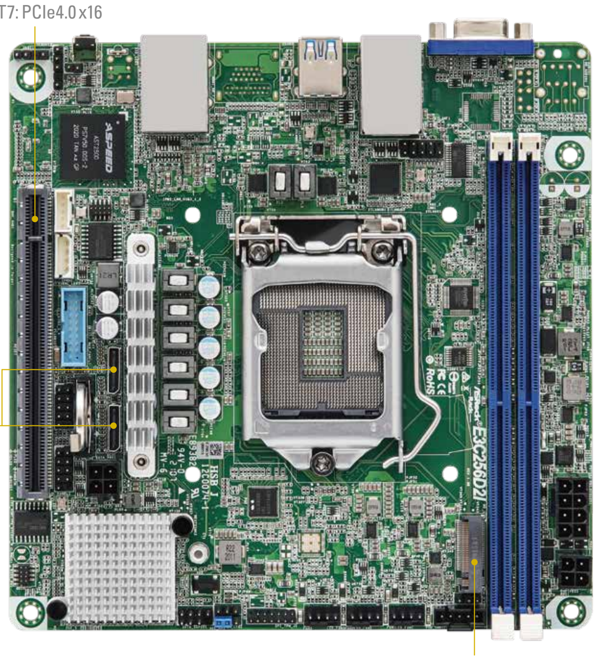
Note1: Up to DDR4 2666MHz when installing Pentium® Series Processors 3200MHz for 2R2R configurations is still evaluated.
Note2: SLOT6 supports PCIe3.0 only when installing Pentium® Series Processors
Note3: SLOT4 will not function when installing Pentium® Series Processors
Note4: SATA0 will be disabled when M2_1 populated with SATA device

E3C256D2I

W580D2I (BTO)
Z590D2I (BTO)

DDR4 3200 | PCI-E 4.0

3200 | PCI-E 4.0 | Oculink



Application

- SMB
- Home NAS
- Edge Appliances

		E3C256D2I	W580D2I (BTO)	Z590D2I (BTO)
Power source		Supports ATX PSU or 12V DC-in		
Form Factor		m-ITX (6.7" x 6.7")		
Processor System	CPU	1 Socket H5 (LGA1200); Supports Intel® Xeon® E-2300 and Pentium® Series Processors	1 Socket H5 (LGA1200); Supports Intel® Xeon® W Processors, 11th and 10th Gen. Intel® Core™ Processors	1 Socket H5 (LGA1200); Supports 11th and 10th Gen. Intel® Core™, Pentium® and Celeron® Series Processors
	PCH	Intel® C256	Intel® W580	Intel® Z590
Memory	Capacity	2 DIMM Slots (1DPC); Supports DDR4 ECC/ non-ECC UDIMM up to 32GB each, max. 3200MHz Note1		
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note2 [CPU]		
	Others	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]		1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0 x4 or 2 SATA 6Gb/s) [PCH]
Storage	M.2	1 M-key Note3 (PCIe4.0 x4), supports 2280 form factor [CPU]		
	SATA port	8 SATA 6Gb/s: 2 OCuLink		6 SATA 6Gb/s: 2 OCuLink
Network	RJ45	1 RJ45 (1GbE) by Intel® I210 1 RJ45 (1GbE) by Intel® I219-LM		
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 4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header		
	COM port	9-pin header		
Security	TPM	Supports 13-pin (SPI) TPM modules		

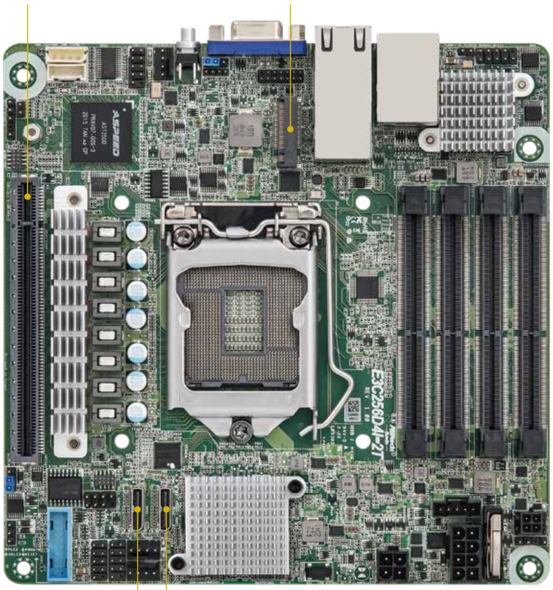
Note1: Up to DDR4 2666MHz when E3C256D2I & Z590D2I installing Pentium® Series Processors
3200MHz for 2R2R configurations is still evaluated.
Note2: SLOT7 supports PCIe3.0 only when installing 10th Gen. Intel® Core™ or Pentium® Series Processors
Note3: M.2 will not function when installing 10th Gen. Intel® Core™ or Pentium® Series Processors

E3C256D4I-2T

3200 PCI-E 4.0 10Gbase-T

SLOT7: PCIe4.0 x16

1 M.2 (PCIe4.0 x4)

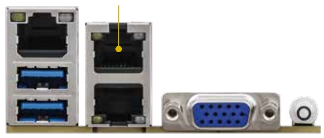


2 OCuLink
(PCIe3.0 x4 or 4 SATA)

Application

- Multi-node server
- Small form factor server

IPMI Shared NIC



2 USB 3.2 Gen1 2 RJ45 (10GbE) VGA

		E3C256D4I-2T
Power source		Supports ATX PSU or 12V DC-in
Form Factor		m-ITX (6.7'' x 6.7'')
Processor System	CPU	1 Socket H5 (LGA1200); Supports Intel® Xeon® E-2300 and Pentium® Series Processors
	PCH	Intel® C256
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4
		ECC/non-ECC SODIMM up to 32GB each, 1DPC max. 3200MHz; 2DPC max. 2133MHz (TBD)
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note1 [CPU]
	Others	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
Storage	M.2	1 M-key Note2 (PCIe4.0 x4), supports 2280 form factor [CPU]
	SATA port	8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X550
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
	COM port	9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

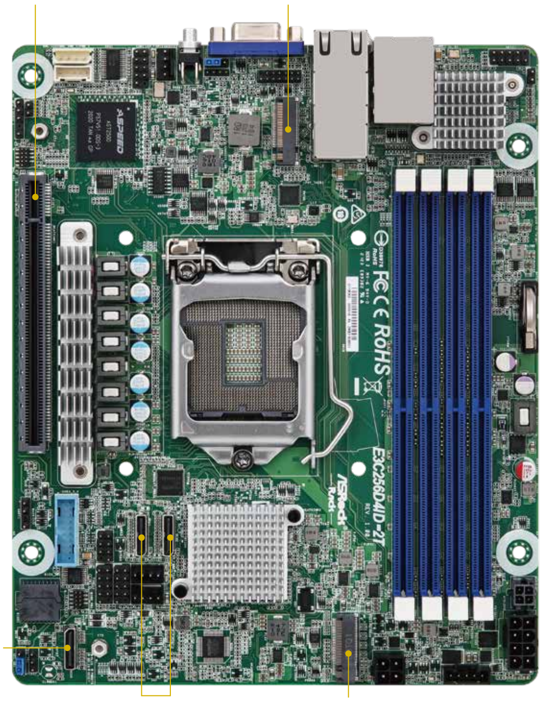
Note1: SLOT7 supports PCIe3.0 only when installing Pentium® Series Processors
Note2: M.2 will not function when installing Pentium® Series Processors

E3C256D4ID-2T

DDR4 3200 — 3200

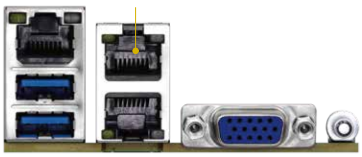
PCI-E 4.0 — PCI-E 4.0

10G — 10Gbase-T



Application

- Multi-node server
- Edge appliances



		E3C256D4ID-2T
Power source		Supports ATX PSU or 12V DC-in
Form Factor		Deep mini-ITX (6.7'' x 8.2'')
Processor System	CPU	1 Socket H5 (LGA1200); Supports Intel® Xeon® E-2300 and Pentium® Series Processors
	PCH	Intel® C256
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4
		ECC/ non-ECC UDIMM up to 32GB each, max. 3200MHz Note1
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note2 [CPU]
	Others	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
		1 OCuLink (PCIe3.0 x4) [PCH]
Storage	M.2	1 M-key Note3 (PCIe4.0 x4), supports 2280 form factor [CPU]
		supports 2280 form factor [PCH]
	SATA port	8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-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
	COM port	9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

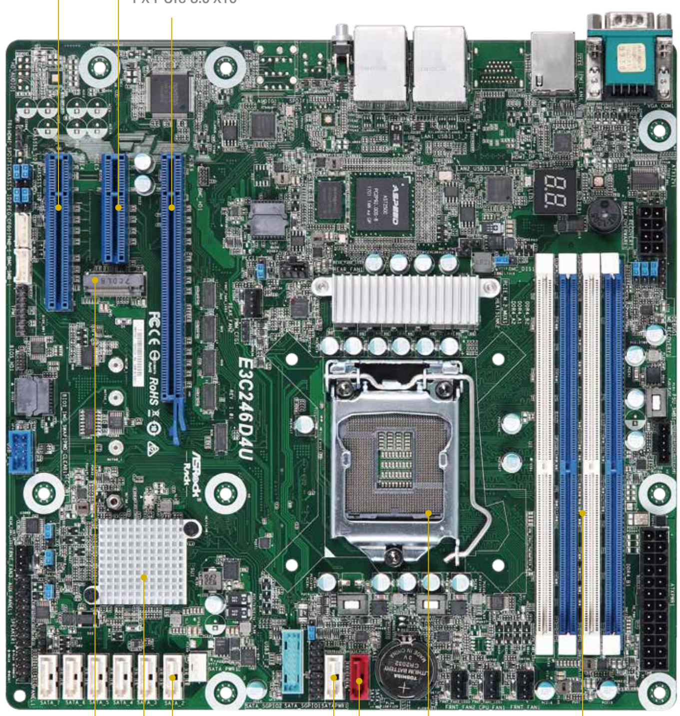
Note1: Up to DDR4 2666MHz when installing Pentium® Series Processors
3200MHz for 2R2R configurations is still evaluated.
Note2: SLOT7 supports PCIe3.0 only when installing Pentium® Series Processors
Note3: M.2 from CPU will not function when installing Pentium® Series Processors

E3C246D4U

E3C242D4U

DDR4 2666 | Micro ATX

2666 | Micro ATX



Application

- Entry-level Enterprise Server
- General Purpose Server
- SMB
- Web Hosting

SKU Option

	E3C246D4U	E3C242D4U
Chipset	C246	C242
Storage	8 x SATA3 6Gb/s	6 x SATA3 6Gb/s

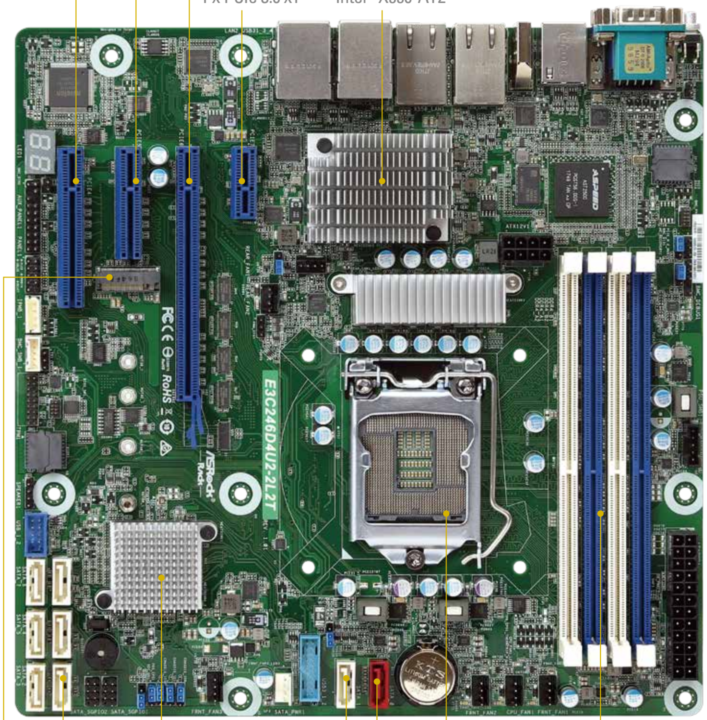
		E3C246D4U	E3C242D4U
Form Factor		Micro-ATX (9.6'' x 9.6'')	
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Processors	
Memory		4 DIMM Slots, DDR4 2666/2400 ECC/non-ECC U DIMM Max. 64 GB	
Storage	Intel PCH	8 x SATA3 6Gb/s (SATA0-7, SATA0 supports SATA DOM, and is shared with M.2(PCIe 3.0(x4))/ SATA3)	6 x SATA3 6Gb/s (SATA0-5, SATA0 supports SATA DOM, and is shared with M.2(PCIe 3.0(x2))/ SATA3)
	Additional	N/A	
Expansion Slots		1 x PCIe3.0 x16, 1 x PCIe3.0 x8, 1 x PCIe3.0 x4	
Ethernet	LAN Controller	2 x RJ45 GLAN by Intel® I210	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED AST2500	
	IPMI dedicated LAN	Realtek RTL8211E	
USB 3.1		4 (2(Gen2), 2(Gen1))	
USB 3.0		2 (2 via Header)	
USB 2.0		2 (2 via Header)	
M.2		1 (M-key, 2230/2242/2260/2280, supports PCIe 3.0(x4)/SATA3)	

E3C246D4U2-2L2T

E3C246D4U2-2T

E3C242D4U2-2T

2666 | Micro ATX | 10Gbase-T

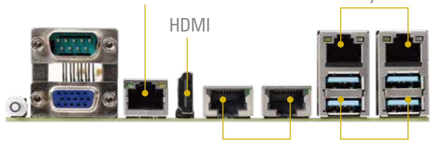


Application

- Web hosting
- SMB
- General purpose server

SKU Option

	E3C246D4U2-2L2T	E3C246D4U2-2T	E3C242D4U2-2T
Chipset	C246	C246	C242
10G LAN	2 GLAN by Intel i210, 2 10GLAN by Intel X550-AT2	2 10GLAN by Intel X550-AT2	2 10GLAN by Intel X550-AT2
Storage	8 SATA 6Gb/s	8 SATA 6Gb/s	6 SATA 6Gb/s
PCIe	SLOT 5: PCIe3.0 x4	SLOT 5: PCIe3.0 x4	N/A



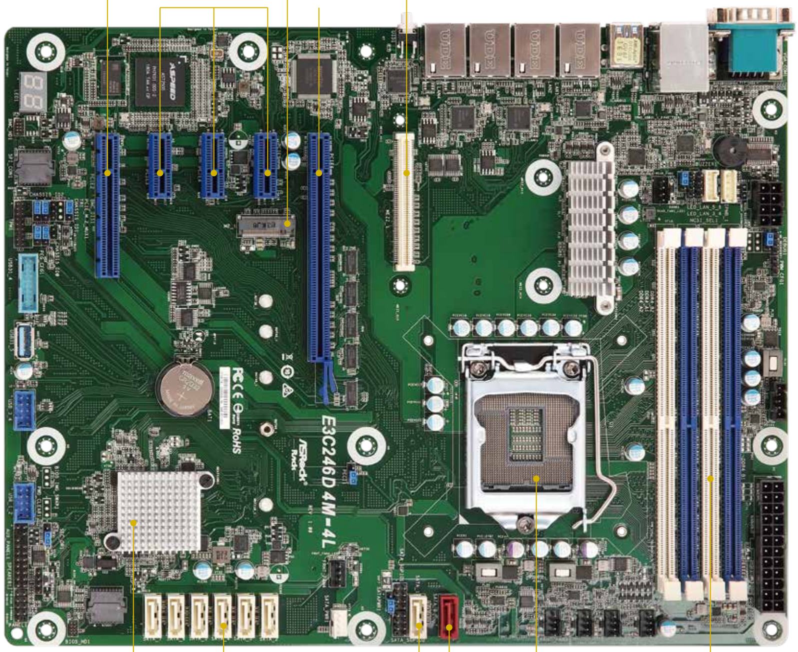
		E3C246D4U2-2L2T	E3C246D4U2-2T	E3C242D4U2-2T
Form Factor		Micro-ATX (9.6'' x 9.6'')		
Processor Support		Socket LGA1151, supports Intel® Xeon® E-2200 / E-2100 Processors, 8th/9th Generation Intel® Core i3 / Pentium®/ Celeron® Processors		
Memory		4 DIMM Slots, DDR4 2666/2400 ECC/non-ECC U DIMM Max. 64 GB		
Storage	Intel PCH	8 x SATA3 6Gb/s (SATA0-7, SATA0 support SATA DOM, and shared with M.2(PCIe 3.0(x4))/ SATA3)		6 x SATA3 6Gb/s (SATA0-5, SATA0 support SATA DOM, and shared with M.2(PCIe 3.0(x4))/ SATA3)
	Additional	N/A		
Expansion Slots		1 x PCIe3.0 x16, 1 x PCIe3.0 x8, 1x PCIe3.0 x4, 1 x PCIe3.0 x1		1 x PCIe3.0 x16, 1 x PCIe3.0 x8, 1 x PCIe3.0 x1
Ethernet	LAN Controller	2 x RJ45 10G base-T by Intel® X550-AT2, 2 x RJ45 GLAN by Intel® I210	2 x RJ45 10G base-T by Intel® X550-AT2	2 x RJ45 10G base-T by Intel® X550-AT2
System management	BMC Controller	ASPEED AST2500		
	IPMI dedicated LAN	Realtek RTL8211E		
USB 3.2 Gen2		2 (2(Gen2) from Rear I/O)		
USB 3.2 Gen1		4 (2 from Rear I/O, 2 via Header)		
USB 2.0		2 (2 via Header)		
M.2		1 (M-key, 2230/2242/2260/2280, supports PCIe 3.0(x4)/SATA3)		

E3C246D4M-4L

E3C242D4M-4L

DDR4 2666

2666

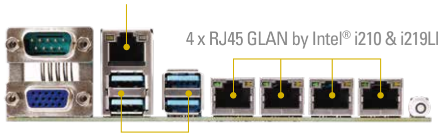


Application

- Web Convergence Server
- Appliance Server
- Entry Firewall Server

SKU Option

	E3C246D4M-4L	E3C242D4M-4L
Chipset	C246	C242
Storage	8 x SATA3 6Gb/s	6 x SATA3 6Gb/s



		E3C246D4M-4L	E3C242D4M-4L
Form Factor		ATX (12'' x 9.6'')	
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Processors	
Memory		4 DIMM Slots, DDR4 2666/2400 ECC/non-ECC U DIMM Max. 64 GB	
Storage	Intel PCH	8 x SATA3 6Gb/s (SATA0-7, SATA0 supports SATA DOM, and shared with M.2(PCIe 3.0(x4))/ SATA3 6Gb/s)	6 x SATA3 6Gb/s (SATA0-5, SATA0 supports SATA DOM, and shared with M.2(PCIe 3.0(x2))/ SATA3 6Gb/s)
	Additional	N/A	
Expansion Slots		1x PCIe3.0 x16, 1 x PCIe3.0 x8, 3 x PCIe3.0 x1	1x PCIe3.0 x16, 1 x PCIe3.0 x8
Ethernet	LAN Controller	4 x RJ45 GLAN by Intel® i210 & i219LM	
	LAN Port	RJ45:4+1(IPMI)	
System management	BMC Controller	ASPEED AST2500	
	IPMI dedicated LAN	Realtek RTL8211E	
USB 3.1		4 (4(GEN2) from Rear I/O)	4 (2(GEN2), 2(GEN1) from Rear I/O)
USB 3.0		3 (2 via Header, 1 from Type A)	
USB 2.0		4 (4 via Header)	
M.2		1 x M.2 (2230/2242/2260/2280, Supports PCIe 3.0(x2)/SATA3)	
Mezzanine		1 (1 PCIe 3.0 x8 Ethernet Mezzanine Card supports 10GbE)	

- Compatible Mezzanine Type A: M599, M540, M350, M710

E3C246D4I-2T

DDR4 2666

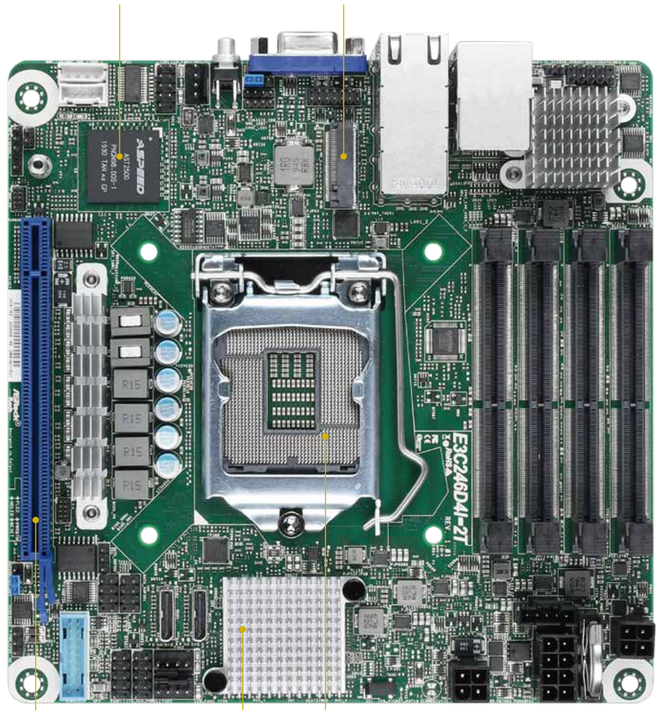
2666

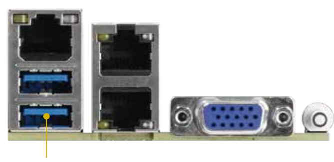
10G

10Gbase-T

Application

- Multi-node server
- Small form factor server





		E3C246D4I-2T
Form Factor		Mini-ITX (6.7" x 6.7")
Processor System	CPU	Socket LGA1151, supports Intel® Xeon® E-2200 / E-2100 Processors, 8th/9th Generation Intel® Core i3 / Pentium®/ Celeron® Processors
	PCH	Intel® C246
Memory	Capacity	4 DIMM slots (1DPC); supports DDR4 ECC/ SO-DIMM up to 2666MHz, 32GB
Expansion	PCIe slot	1 PCIe3.0 x16
	Others	2 OCulink (PCIe4.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	8 from Oculink connectors
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header

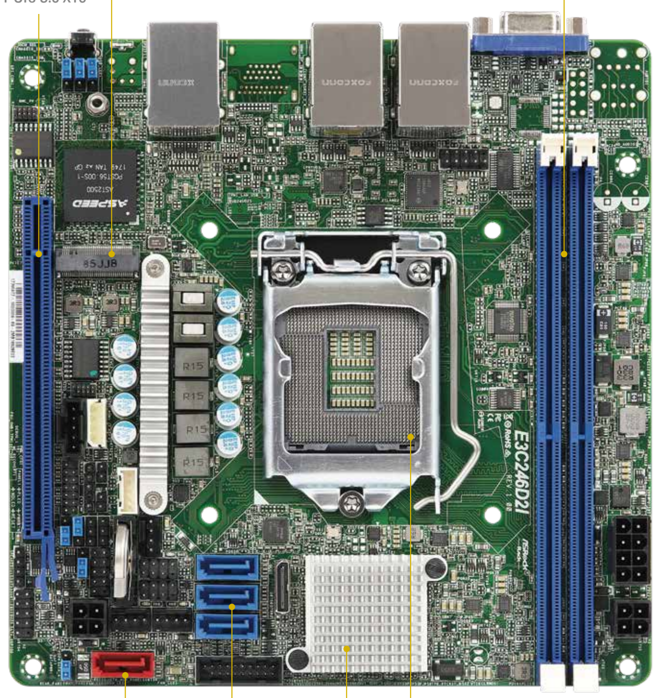
Intel® Xeon E-2200

E3C246D2I

E3C242D2I

NAS

2666



Application

- Enterprise NAS
- Appliance Server
- Security/Gateway Server
- Edge Computing

SKU Option

	E3C246D2I	E3C242D2I
Chipset	C246	C242

		E3C246D2I	E3C242D2I
Form Factor		Mini-ITX (6.7"x 6.7")	
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Processors	
Memory		2 DIMM Sots, DDR4 2666/2400 ECC/non-ECC U DIMM	
Storage	Intel PCH	8 x SATA3 6Gb/s(including 1 x SATA DOM)	6 x SATA3 6Gb/s(including 1 x SATA DOM)
	Additional	N/A	
Expansion Slots		1 x PCIe3.0 x16	
Ethernet	LAN Controller	1 x Intel® i210 + 1 x Intel® i219	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED AST2500	
	IPMI dedicated LAN	Realtek RTL8211E	
USB 3.1		4 (4(GEN2) from Rear I/O)	2 (2(GEN2) from Rear I/O)
USB 3.0		2 (2 via Header)	
USB 2.0		2 (2 from Rear I/O)	
M.2		1 ((2242, PCIe 3.0 (x4)/SATA3 6Gb/s(share with SATA 1))	
OCuLink		1 (SATA0-3)	

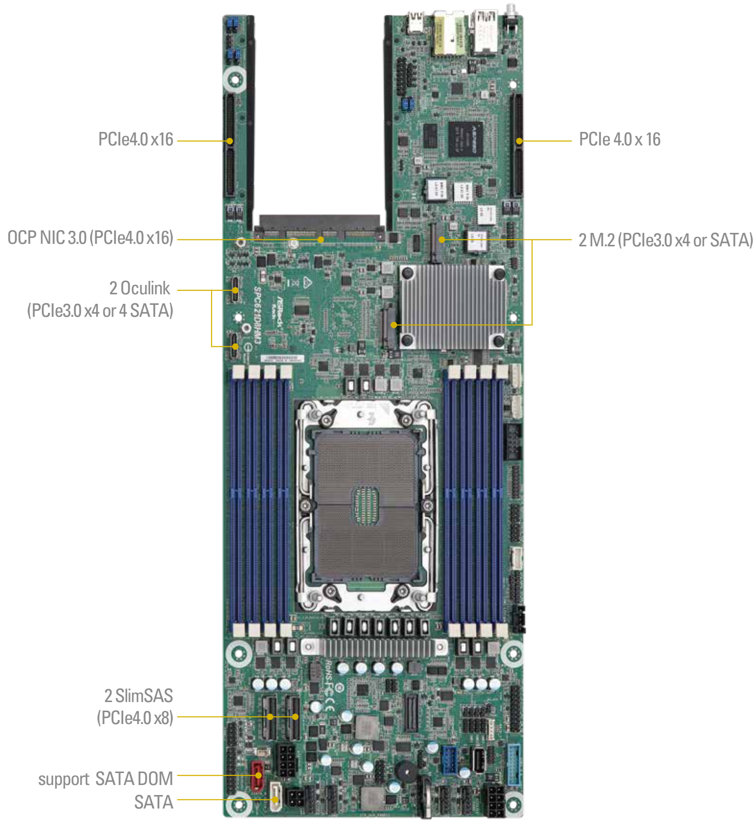
SPC621D8HM3

4189

3200

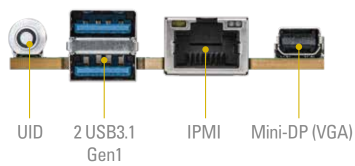
PCI-E 4.0

OCP NIC 3.0



Application

- Edge server
- Multi-node server



		SPC621D8HM3
Form Factor		Proprietary Half-width (6.6” x 17”)
Processor System	CPU	Socket P+ (4189 pin)
		Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	8 DDR4 288-pin DIMM Slots (1DPC); Supports:
		RDIMM up to 64GB each, max. 3200MHz
		LRDIMM up to 128GB each, max. 3200MHz
		RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz
		Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	2 high-density PCIe4.0 x16
	Others	2 SlimSAS (PCIe4.0 x8)
		2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key[Note1] (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor
		1 M-Key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	11 SATA 6Gb/s: 2 OCuLink 4i, 1 SATA 7-pin, 1 M.2, 1 SATA DOM or M.2
Network	OCP NIC	1 OCP NIC 3.0 (PCIe4.0 x16)
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
		3 USB2.0 ports: 1 vertical Type-A, 2 via 9-pin header
	COM port	9-pin header
Security	TPM	Supports 17-pin (LPC) or 13-pin (SPI) TPM modules
	PFR	N/A

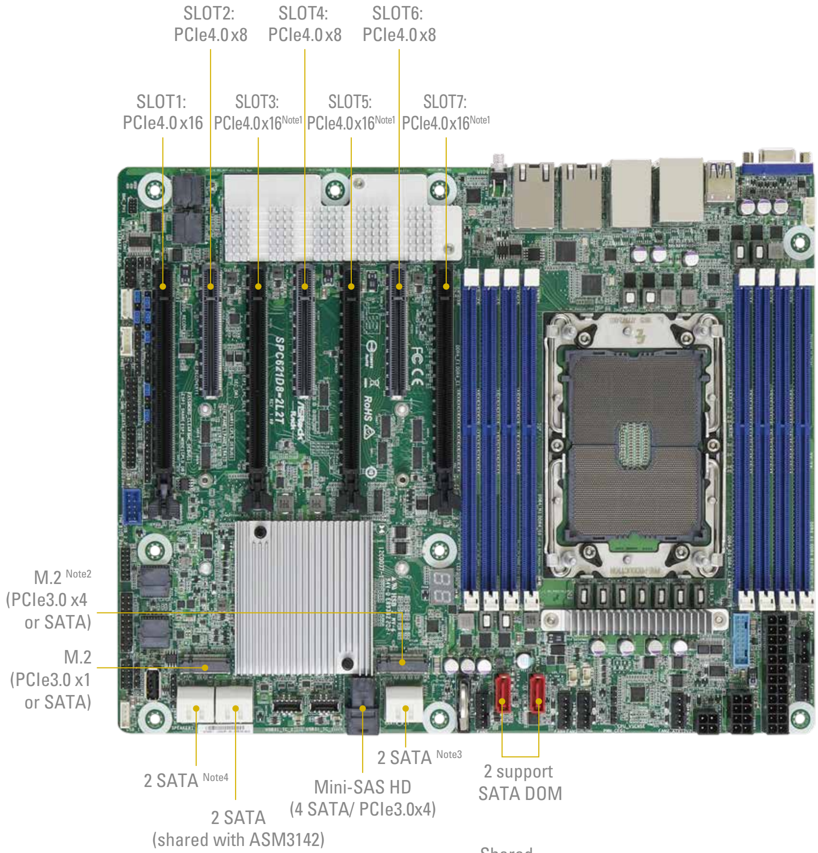
Note1: SATA DOM will be disabled when M.2_1 populated with SATA device

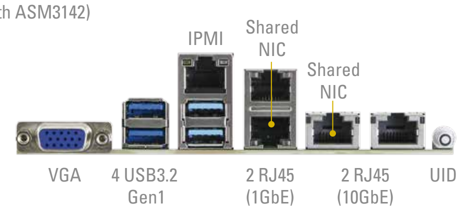
3rd Gen Intel® Xeon® Scalable

SPC621D8-2L2T

SPC621D8-2T
SPC621D8

Xeon Scalable — 4189 | DDR4 3200 — 3200 | PCI-E 4.0 — PCI-E 4.0





Application

- Deep learning workstation
- Visual computing
- High-end workstation
- Rendering machine
- 3D design and creation
- General purpose server

		SPC621D8-2L2T	SPC621D8-2T	SPC621D8
Form Factor		ATX (12" x 9.6")		
Processor System	CPU	Socket P+ (4189 pin) ; Supports 3rd Gen Intel® Xeon® Scalable Processors		
	PCH	Intel® C621A		
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 RDIMM up to 64GB each, max. 3200MHz LRDIMM up to 128GB each, max. 3200MHz RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz Intel® Optane™ Persistent Memory 200 Series		
Expansion	PCIe slot	4 PCIe4.0 x16 Note1, 3 PCIe4.0 x8		
Storage	M.2	1 M-key Note2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor 1 M-key (PCIe3.0 x1 or SATA 6Gb/s), supports 22110/2280/2242 form factor		
	SATA port	9 SATA 6Gb/s: 1 Mini-SAS HD, 2 SATA 7-pin, 2 SATA DOM, 1 M.2		
		+ 1 M.2	+ 2 SATA 7-pin, 1 M.2	+ 4 SATA 7-pin
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2 2 RJ45 (1GbE) by Intel® i210	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	2 USB3.2 Gen2 ports: 2 Type-C headers (BTO) 6 USB3.2 Gen1 ports: 4 rear Type-A, 2 via 19-pin header 3 USB2.0 ports: 1 vertical Type-A, 2 via 9-pin header		
	COM port	9-pin header		
Security	TPM	Supports 17-pin (LPC) or 13-pin (SPI) TPM modules		
	PFR	N/A		

Note1: Slot 7/5/3 auto-switch to PCIe4.0 x8 when Slot 6/4/2 occupied
Note2: SPC621D8 supports 1 M-key (PCIe3.0 x4) and 1 M-key (PCIe3.0 x1 or SATA 6Gb/s)
Note3: Only available on SPC621D8 SKU
Note4: Only available on SPC621D8-2T and SPC621D8 SKU

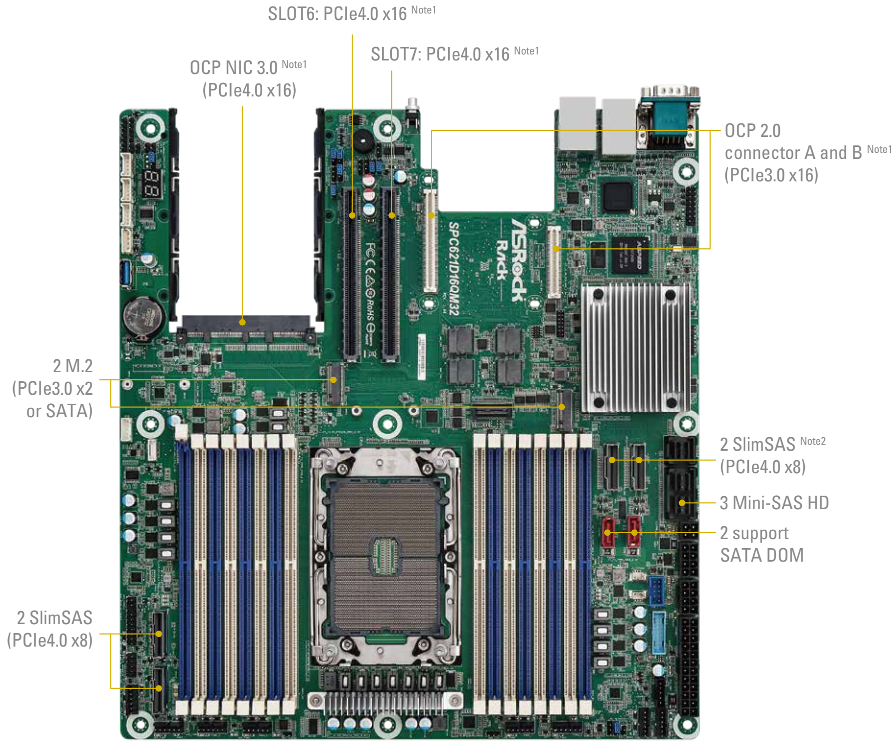
SPC621D16QM32

4189

3200

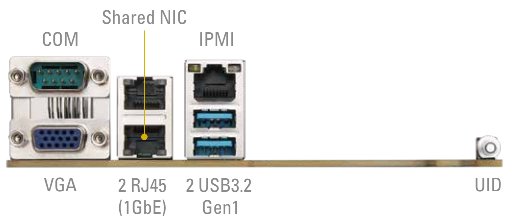
PCI-E 4.0

OCP NIC 3.0



Application

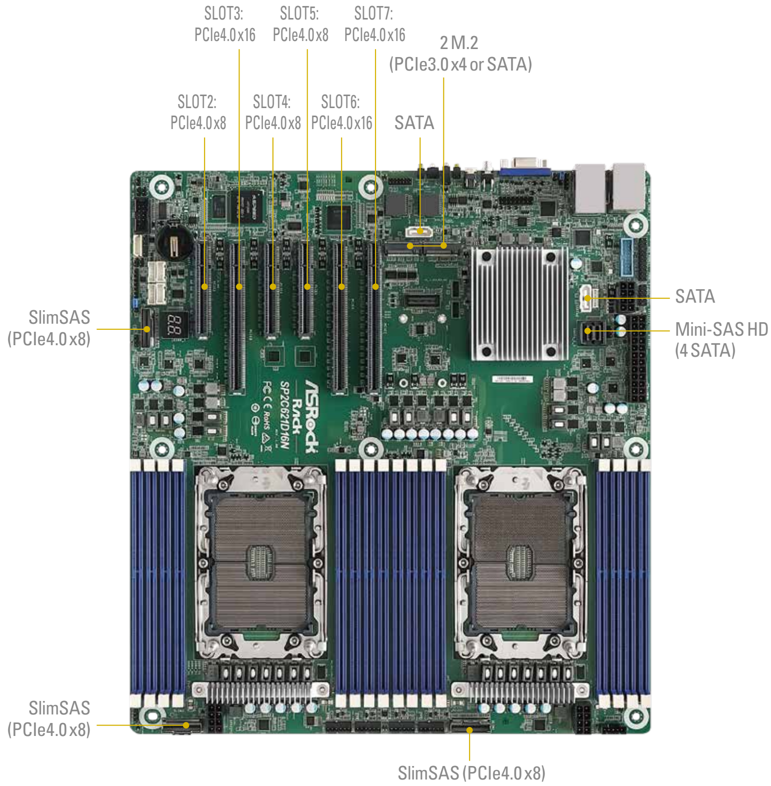
- CSP
- CDN
- Hybrid-storage server
- All-flash storage server



		SPC621D16QM32
Form Factor		EEB (12" x 13")
Processor System	CPU	Socket P+ (4189 pin)
		Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	16 DDR4 288-pin DIMM Slots (2DPC); Supports:
		RDIMM up to 64GB each, max. 3200MHz
		LRDIMM up to 128GB each, max. 3200MHz
		RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz
		Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	2 PCIe4.0 x16 Note1
	Others	4 SlimSAS Note2 (PCIe4.0 x8)
Storage	M.2	2 M-key Note3 (PCIe3.0 x2 or SATA 6Gb/s)
	SATA port	14 SATA 6Gb/s: 3 Mini-SAS HD, 2 SATA DOM or M.2 Note3
Network	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2
	OCP NIC	1 OCP NIC 3.0 Note1 (PCIe4.0 x16)
		1 OCP 2.0 connector A and B Note1 (PCIe3.0 x16)
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	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
	COM port	1 rear DB9
Security	TPM	Supports 13-pin (SPI) TPM modules
	PFR	BTO

Note1: OCP2.0 shared with SLOT 7, OCP3.0 shared with SLOT 6
Note2: 2 SlimSAS (SLIM3 and SLIM4) will be depopulated when using PCH C627A/C629A for QAT support
Note3: 2 SATA DOM will be disabled when M.2 is populated with SATA device

SP2C621D16N



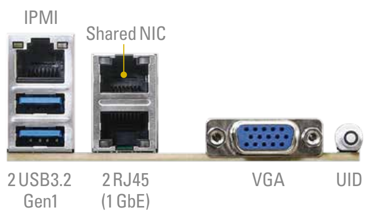
Xeon Scalable
4189

DDR4 3200
3200

PCI-E 4.0
PCI-E 4.0

Application

- Enterprise Mission Critical Application
- Hybrid storage server



		SP2C621D16N
Form Factor		EEB (12.2'' x 13.12'')
Processor System	CPU	1+1 Socket P+ (4189 pin) ; Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	8+8 DDR4 288-pin DIMM Slots (1DPC), supports: RDIMM up to 64GB each, max. 3200MHz LRDIMM up to 128GB each, max. 3200MHz RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	2 PCIe4.0 x16 [CPU0] 1 PCIe4.0 x16, 3 PCIe4.0 x8 [CPU1]
	Others	1 SlimSAS (PCIe4.0 x8) [CPU0] 2 SlimSAS (PCIe4.0 x8) [CPU1]
Storage	M.2	2 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2242 form factor
	SATA port	8 SATA 6Gb/s: 1 Mini-SAS HD, 2 SATA 7-pin, 2 M.2
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
	COM port	9-pin header
Security	TPM	Support 13-pin (SPI) TPM module
	PFR	N/A

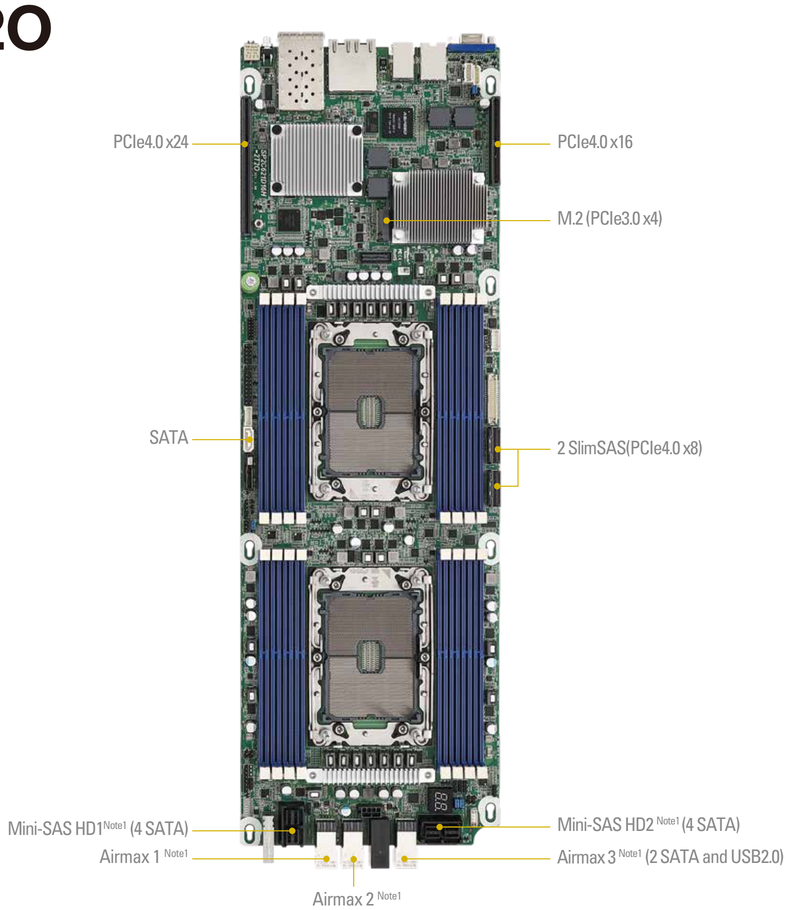
3rd Gen Intel® Xeon® Scalable

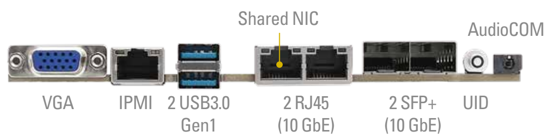
SP2C621D16H-2T2O

Xeon Scalable
4189

DDR4 3200
3200

PCI-E 4.0
PCI-E 4.0





Application

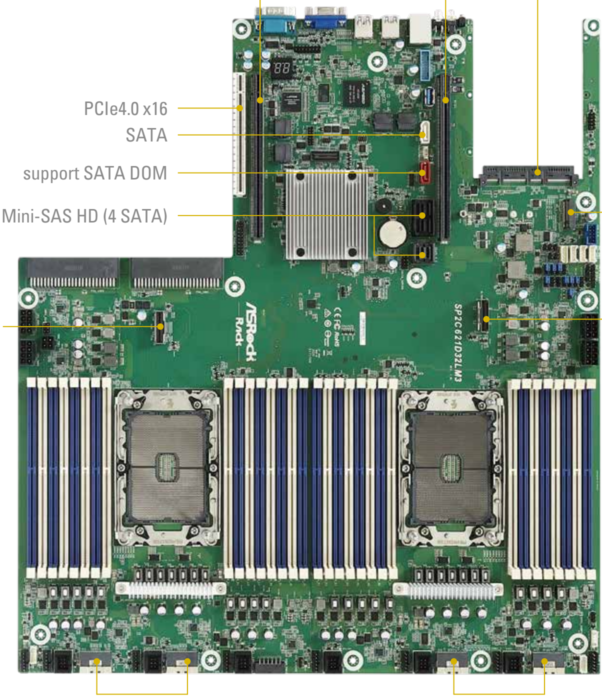
- High-performance computing node
- High-density storage

		SP2C621D16H-2T2O
Form Factor		Half-width (6.5'' x 20'')
Processor System	CPU	1+1 Socket P+ (4189 pin) ; Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	8+8 DDR4 288-pin DIMM Slots (1DPC); Supports:
		RDIMM up to 64GB each, max. 3200MHz
		LRDIMM up to 128GB each, max. 3200MHz
		RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz
		Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	1 high-density PCIe4.0 x24 [CPU0]
		1 high-density PCIe4.0 x16 [CPU0]
	Others	2 SlimSAS (PCIe4.0 x8) [CPU0]
Storage	M.2	1 M-key (PCIe3.0 x4), supports 2280 form factor
	SATA port	3 SATA 6Gb/s: SATA 7-pin, 2 SATA Airmax
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-TM4
	Optical	2 SFP+ (10GbE) by Intel® X710-TM4
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen1 ports: 2 rear Type-A
		1 USB2.0 ports: 1 Airmax con
	COM port	Audio COM port
Security	TPM	Supports 17-pin (LPC) or 13-pin (SPI) TPM modules
	PFR	BTO

Note1: Airmaxs support SAS 12Gb/s when additional RAID card connected to on-board mini-SAS HD w/ cables
- Mini-SAS HD 1 (2 SAS linked to Airmax 2, 6 SAS linked to Airmax 1)
- Mini-SAS HD 2 (4 SAS linked to Airmax 3, 4 SAS linked to Airmax 2)

3rd Gen Intel® Xeon® Scalable

SP2C621D32LM3



4189 | 3200 | PCI-E 4.0 | OCP NIC 3.0 | 16+16 DIMMS

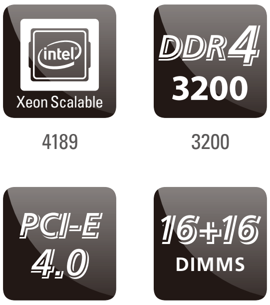
Application

- HCI
- E-commerce
- Software-defined applications

		SP2C621D32LM3
Form Factor		Proprietary L-shape (18.8607" x17.0149")
Processor System	CPU	1+1 Socket P+ (4189 pin) ; Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	16+16 DDR4 288-pin DIMM Slots (2DPC); Supports:
		RDIMM up to 64GB each, max. 3200MHz
		LRDIMM up to 128GB each, max. 3200MHz
		RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz
		Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	1 PCIe4.0 x24 [CPU0]
		1 PCIe4.0 x24, 1 PCIe4.0 x16 [CPU1]
	Others	3 SlimSAS (PCIe4.0 x8) [CPU0]
		3 SlimSAS (PCIe4.0 x8) [CPU1]
Storage	M.2	1 M-key Note1 (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor
	SATA port	14 SATA 6Gb/s: 3 Mini-SAS HD, SATA DOM, SATA DOM or M.2
Network	OCP NIC	1 OCP NIC 3.0 (PCIe4.0 x16) [CPU0]
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	5 USB3.2 Gen1 ports: 2 rear Type-A, 1 vertical Type-A, 2 via header
		2 USB2.0 ports: 2 via 9-pin header
	COM port	1 rear DB9
Security	TPM	Supports 13-pin (SPI) TPM modules
	PFR	BTO

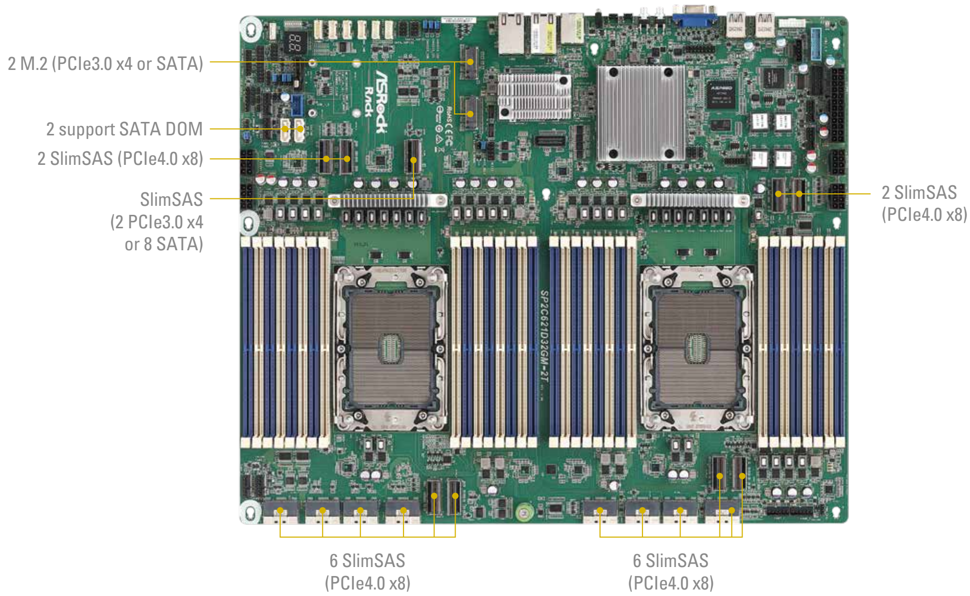
Note1: SATA DOM will be disabled when M.2 is populated with SATA device

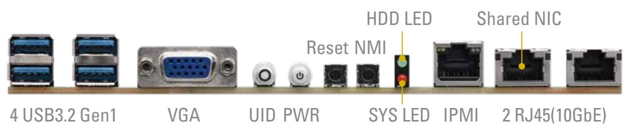
SP2C621D32GM-2T



4189 | 3200

PCI-E 4.0 | 16+16 DIMMS





Application

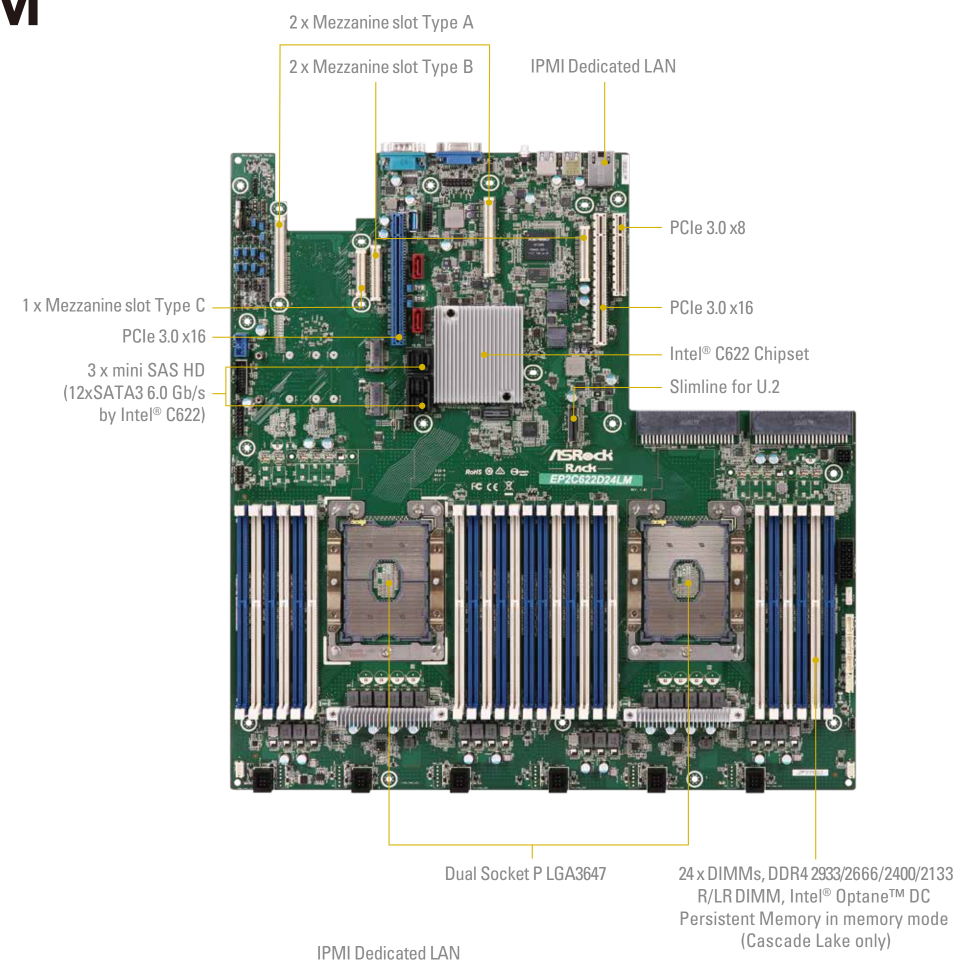
- All Flash NVMe Storage Server
- GPGPU Computing
- High-end Network Appliance

		SP2C621D32GM-2T
Form Factor		Proprietary (16.53'' x 13.79'')
Processor System	CPU	1+1 Socket P+ (4189 pin) ; Supports 3rd Gen Intel® Xeon® Scalable Processors
	PCH	Intel® C621A
Memory	Capacity	16+16 DIMM Slots (2DPC); Supports DDR4 RDIMM up to 64GB each, max. 3200MHz LRDIMM up to 128GB each, max. 3200MHz RDIMM/LRDIMM-3DS up to 256GB each, max. 3200MHz Intel® Optane™ Persistent Memory 200 Series
Expansion	PCIe slot	-
	Others	4 SlimSAS (PCIe4.0 x8) [CPU0] 4 low-porfile SlimSAS(PCIe4.0 x8) [CPU0] 4 SlimSAS(PCIe4.0 x8) [CPU1] 4 low-profile SlimSAS(PCIe4.0 x8) [CPU1] 1 low-profile SlimSAS Note1 (2 PCIe3.0 x4 or 8 SATA 6Gb/s) [PCH]
Storage	M.2	2 M-key Note1 (PCIe 3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	10 SATA 6Gb/s: SlimSAS or M.2, 2 SATA DOM
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
Management	BMC	ASPEED AST2500: IPMI 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
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	9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules
	PFR	BTO

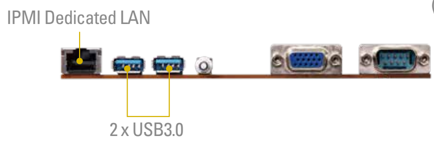
Note1: SLIM9 from PCH will only support PCIe3.0 x4 or 4 SATA when M.2_2 is populated

EP2C622D24LM

EP2C621D24LM-AB



Xeon Scalable 3647 | DDR4 2933 2933 | L shape



Application

- Enterprise Mission Critical Application
- Datacenter Computing or Virtualization Server
- E-commerce
- Virtualization

SKU Option

	EP2C622D24LM	EP2C621D24LM-AB
Intel PCH	Intel® C622	Intel® C621
Mezzanine slot	2x Type A, 2x TypeB, 1x Type C	2x Type A, 2x TypeB

		EP2C622D24LM	EP2C621D24LM-AB
Form Factor		L shape(16.7" x17")	
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W)	
Chipset		Intel® C622	Intel® C621
Memory		Six Channel, 24 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	
Storage	Intel PCH	Intel® C622: 14 x SATA3 (including 1x SATA DOM port, 12 ports from 3x miniSAS-HD)	Intel® C621: 14 x SATA3 (including 1x SATA DOM port, 12 ports from 3x miniSAS-HD)
	Slimline for U.2	1 x8 from CPU1 (support QAT2 by cable to PCH miniSAS HD)	
Expansion Slots		2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8	
Ethernet	LAN Controller	N/A	
	LAN Port	RJ45:1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redfish, HTML 5.0 supported	
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB 3.0		5(2 from rear I/O, 1 Type A USB 3.0, 2 via header)	
M.2		2(share with SATA DOM, 2230/2242/2260/2280 , support PCIE(x2) or SATA3 M.2))	
SATA DOM		2 (share with M.2)	
Mezzanine		2x Mezzanine Type A (1x for OCP LAN, 1x for Storage), 2x Mezzanine Type B, 1x Mezzanine Type C	2x Mezzanine Type A (1x for OCP LAN, 1x for Storage), 2x Mezzanine Type B

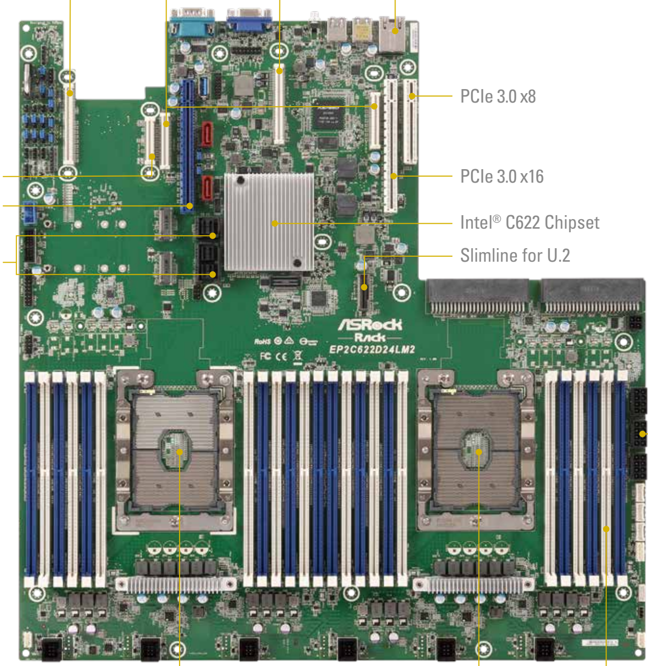
- Compatible Mezzanine Type A: M350, M540, M599, M710, M350R, M540R, M3008S, M3108, M3008((only for board level)
- Compatible Mezzanine Type C: MP-557R2, MP-4223R4, MP-4227R2, MP-1543R4

EP2C622D24LM2

3647 | 2933 | L shape

Application

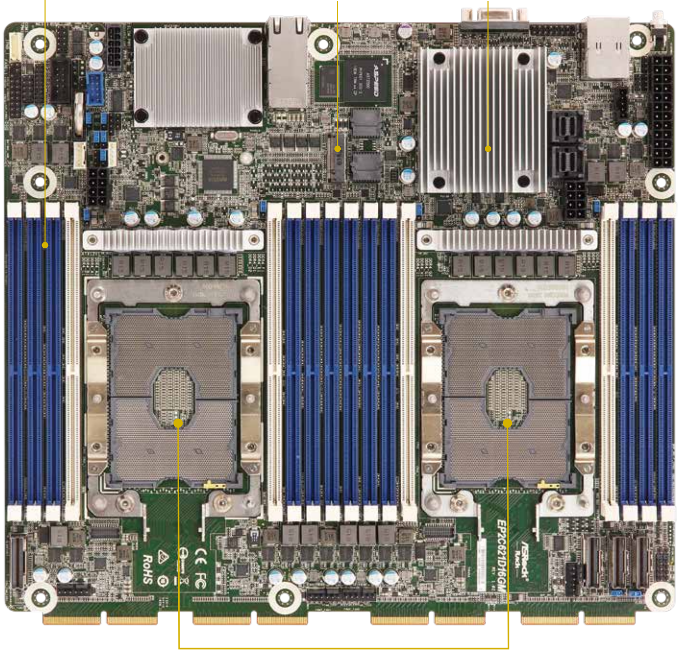
- Enterprise Mission Critical Application
- Datacenter Computing or Virtualization Server
- E-commerce
- Virtualization



		E3C246D4I-2T
Form Factor		L shape(16.7" x 17")
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W)
Chipset		Intel® C622
Memory		Six Channel, 24 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel® C622: 14 x SATA3 (including 1 x SATA DOM port, 12 ports from 3 x miniSAS-HD)
	Slimline for U.2	1 x 8 from CPU1 (support QAT2 by cable to PCH miniSAS HD)
Expansion Slots		2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8
Ethernet	LAN Controller	N/A
	LAN Port	RJ45:1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redsh, HTML 5.0 supported
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		5(2 from rear I/O, 1 Type A USB 3.0, 2 via header)
M.2		2(share with SATA DOM, 2230/2242/2260/2280 , support PCIE(x2) or SATA3 M.2))

EP2C621D16GM

EP2C621D16GM-2T



Xeon Scalable 3647

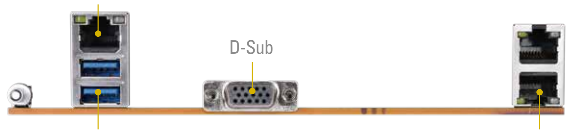
DDR4 2933 2933

Application

- Enterprise Server
- Cloud Computing
- Datacenter Computing

SKU Option

	EP2C621D16GM	EP2C621D16GM-2T
LAN	2GbE by Intel i350	2 10GbE by Intel X550



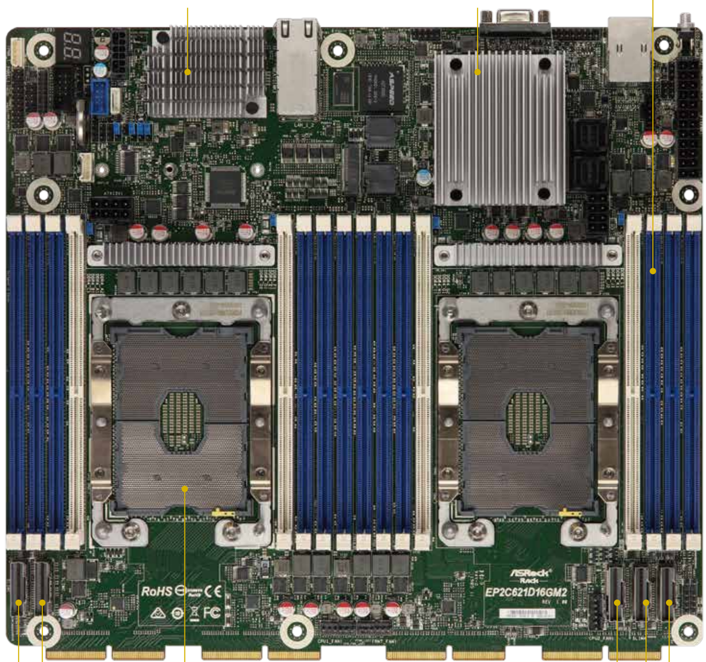
		EP2C621D16GM	EP2C621D16GM-2T
Form Factor		CEB(12 x 10.5")	
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors (Max 205W)	
Memory		Six Channel, 16 DIMM Slots, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	
Storage	Intel PCH	Intel® C621: 8 x SATA3 (including 1 x M.2)	
	Slimline for U.2	1 x8 from CPU1 (support QAT2 by cable to PCH miniSAS HD)	
Expansion Slots		4x Slimline	
Ethernet	LAN Controller	Intel® i350	Intel® X550
	LAN Port	2 RJ45 (1GbE)	2 RJ45 (10GbE)
System management	BMC Controller	ASPEED AST2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redsh, HTML 5.0 supported	
	IPMI dedicated GLAN	1 x Realtek RTL8211E for Dedicated Management GLAN PIN	
USB 3.0		2(from Rear I/O)	
M.2		1(2230/2242/2260/2280, Support PCIe3.0(x2) or SATA3 6.0Gb/s)	

Intel® Xeon Scalable

EP2C621D16GM2-2T

3647 | 2933

10Gbase-T | Slimline



Application

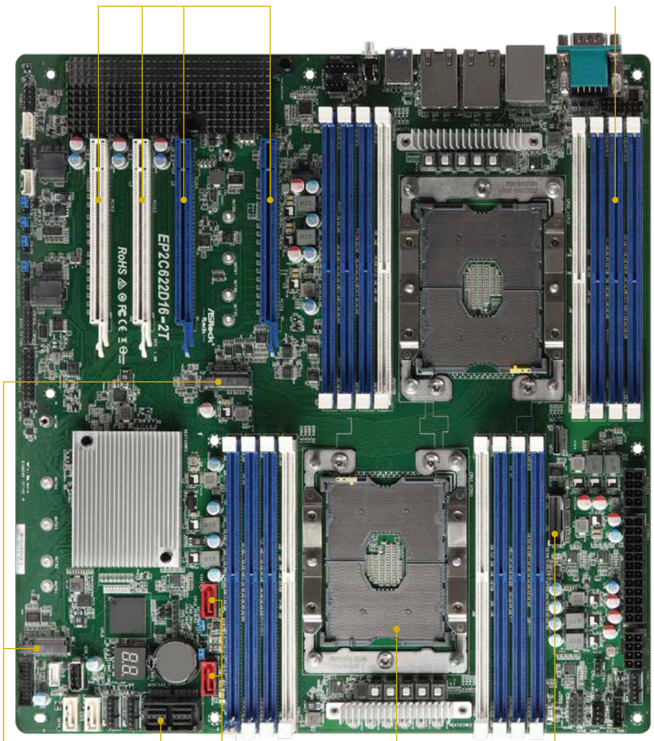
- Web Storage and Virtual Machine
- Network Appliance
- Web Hosting
- Cloud Computing

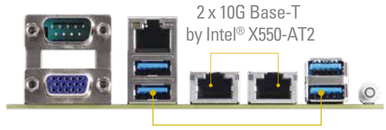
		EP2C621D16GM2-2T
Form Factor		CEB(12"x10.5")
Processor Support		Dual Socket P LGA 3647 Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
Chipset		Intel® C621
Memory		Six Channel, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel® C621: 9 x SATA3 (8 ports from 2x MiniSAS-HD) + 1 x M.2
	Additional	N/A
Expansion Slots		5 x Slimline (Slimline1-4, Slimline5 switch SATA4_7))
Ethernet	LAN Controller	Intel® X550-AT2
	LAN Port	RJ45: 2+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support
	IPMI dedicated GLAN	1 x Realtek RTL8211E for Dedicated Management GLAN PIN
USB 3.0		2 (2 from rear I/O)

EP2C622D16-2T

Xeon Scalable

3647 10Gbase-T Slimline





Application

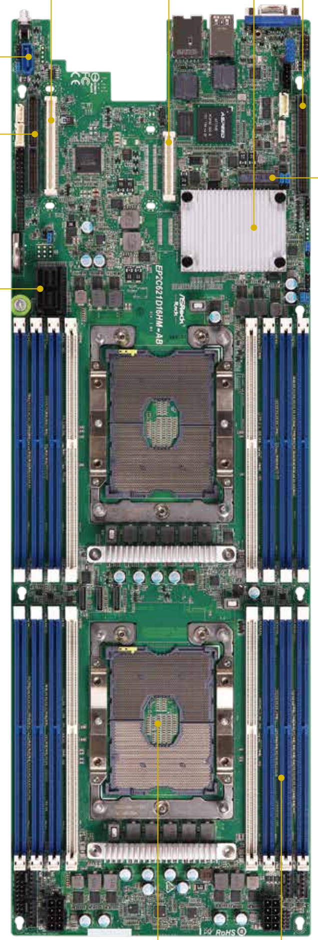
- Web Server and Virtual Machine
- Cloud Computing
- Compact Network Appliance

		EP2C622D16-2T
Form Factor		EEB(12x13")
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
Chipset		Intel® C622
Memory		Six Channel, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel® C622:14 x SATA3(8 port from miniSAS HD, 2port by SATA CONN, 2port from SATA DOM, 2 port from M.2)
	OCuLink for U.2	2 (Slimline x8 from CPU1, OCuLink x4 from CPU1)
Expansion Slots		4 x PCIe3.0 x16
Ethernet	LAN Controller	Intel® X550-AT2
	LAN Port	RJ45: 2+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support)
	IPMI dedicated LAN	1 x Realtek RTL8211E for Dedicated Management GLAN PIN
USB 3.0		6(4 from rear IO, 2 via header)
USB 2.0		1(Type A)
M.2		2(2230/2242/2260/2280/22110, PCIe 3.0(x4)/SATA3 6.0Gb/s)

EP2C621D16HM-AB

EP2C622D16HM-C

3647 | 2933 | Half-width SSI



Application

- High Performance Computing Node
- Virtualization Server
- 5G System Data Node
- Telecom Usage 4U8N Possible

SKU Option

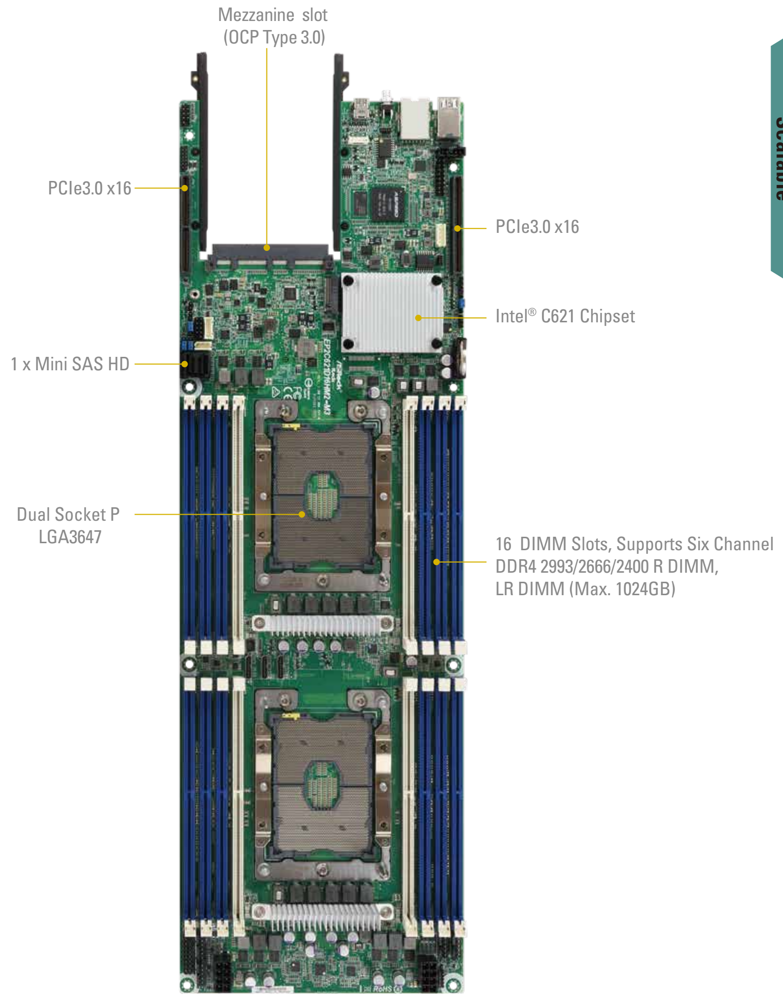
	EP2C621D16HM-AB	EP2C622D16HM-C
Mezzanine	1 x Mezzanine Type A, 1 x Mezzanine Type B	1 x Mezzanine Type C
chipset	C621	C622

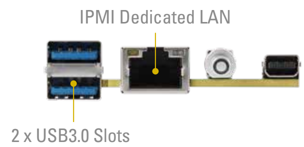
		EP2C621D16HM-AB	EP2C622D16HM-C
Form Factor		Half Width(6.5" x20")	
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W: design ready)	
Chipset		Intel® C621	
Memory		Six Channel, 16 DIMM Slots, DDR4 2933/2666/2400 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	
Storage	Intel PCH	Intel® C621 : 10 x SATA3 (including 1 x SATA DOM ports and 1 x M.2 ports)	
	Additional	N/A	
Expansion Slots		2 x PCIe3.0 x16	
Ethernet	LAN Controller	N/A	
	LAN Port	RJ45:1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm、vMedia, red sh, HTML 5.0 supported	
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB 3.0		5 (2 from rear I/O, 1 Type A USB 3.0, 2 via header)	
Mezzanine		1 x Mezzanine Type A, 1 x Mezzanine Type B	1 x Mezzanine Type C
M.2		1 x M.2 (2280, Supports PCIe 3.0(x2)/SATA3)	

- Compatible Mezzanine Type A: M350, M540, M599, M710, M350R, M540R, M599R, M3008S(only for board level)
- Compatible Mezzanine Type C: MP-4227R2

EP2C621D16HM2-M3

Xeon Scalable 3647 | DDR4 2933 2933 | Half-width SSI





Application

- High Performance Computing Node
- Virtualization Server
- High-density HPC

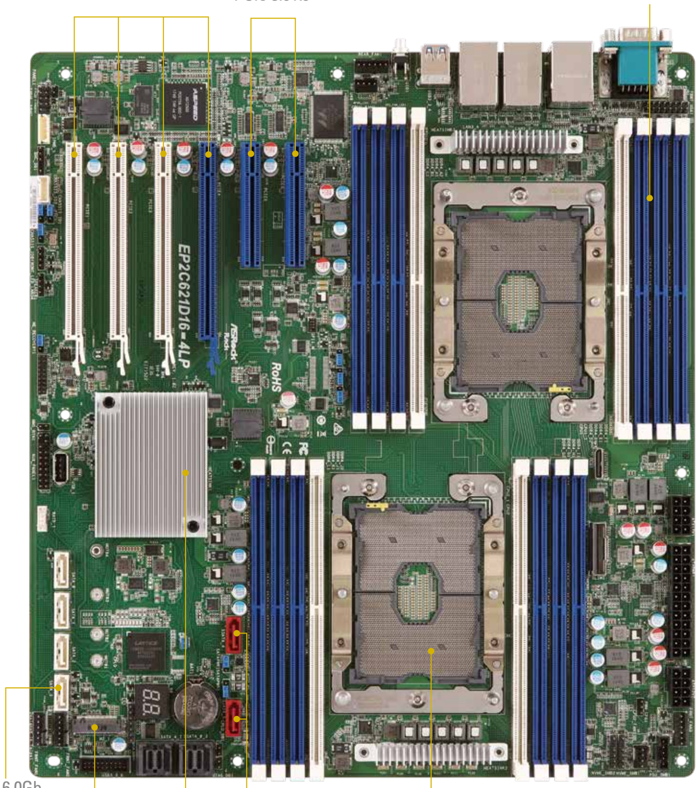
		EP2C621D16HM2-M3
Form Factor		Half Width (6.5" x 20")
Processor Support		Supports Dual Socket P LGA3647 , 2nd Gen. Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors (Max. 205W)
Chipset		Intel® C621
Memory		16 DIMM Slots, Supports Six Channel DDR4 2993/2666/2400 R DIMM, LR DIMM (Max. 1024GB),Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel® C621: 4 x SATA3 from Mini SAS HD(SATA 0-3) + 1 x M.2
	Additional	N/A
Expansion Slots		2 x PCIe3.0 x16
Ethernet	LAN Controller	N/A
	LAN Port	RJ45:1(IPMI)
System management	BMC Controller	ASPEED AST2500
	IPMI dedicated GLAN	RTL8211E
USB 3.0		2 (2 from Rear I/O)
USB2.0		2 (2 via Header)
M.2		1 (2280 only, support PCIe3.0(x4) or SATA3 6.0Gb/s)
Mezzanine		1(OCP3.0)

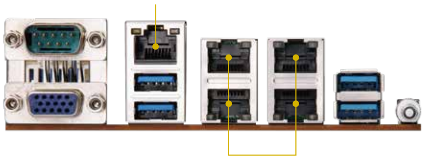
EP2C621D16-4LP

2933 3647 OCuLink

Application

- Cloud and Virtualization
- Compute Intensive Applications
- Data Processing
- Web Hosting





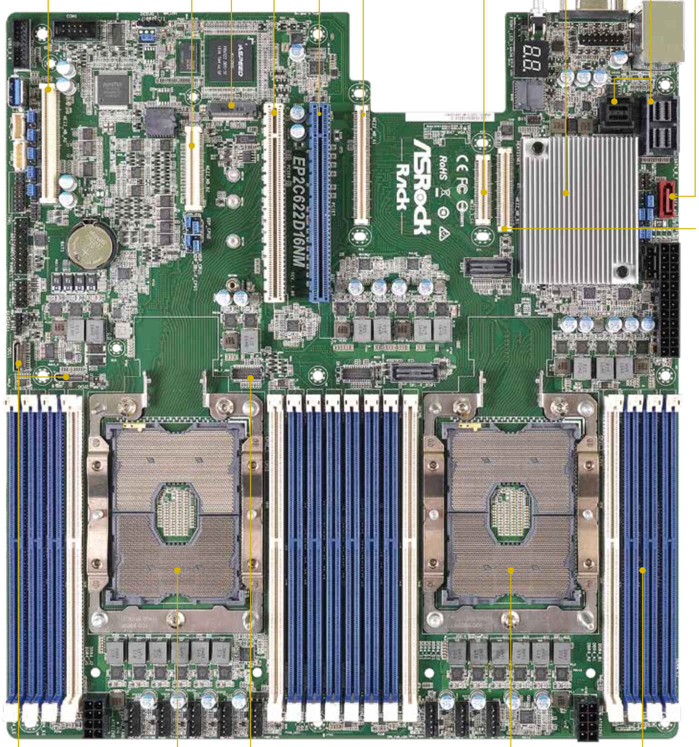
		EP2C621D16-4LP
Form Factor		EEB(12"x13")
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
Chipset		Intel® C621
Memory		Six Channel, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel® C621 : 14 x SATA3 (including 2 x mini-SAS HD, 1 x M.2, 2 x SATA DOM, 4 x SATA 7-pin; one SATA 7-pin will be not functional when installing SATA device in M.2 port)
	U.2	Supports 3 x U.2 via 1x Slimline (PCIe x8) from CPU1, 1 x OCulink (PCIe x4) from CPU1
Expansion Slots		4 x PCIe 3.0 x16, 2 x PCIe 3.0 x8
Ethernet	LAN Controller	Marvell 88E1543
	LAN Port	RJ45:4+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support
	IPMI dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		6 (4 from rear I/O, 2 via header)
M.2		1 (M-key, 2242/2260/2280, Support PCIe3.0(x4) and SATA3 6.0Gb/s)
SATA DOM		2

EP2C622D16NM

Xeon Scalable
3647

DDR4 2933
2933

OCuLink



Application

- Datacenter Co-location
- Mission Critical
- Hyper Converge
- Database or Hadoop Server with SSD Acceleration
- I/O virtualization

		EP2C622D16NM
Form Factor		EEB(12" x13")
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W)
Chipset		Intel® C622
Memory		Six Channel, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel C622 : 12 x SATA3+ 1x SATA DOM ports + 1x M.2 ports
	Additional	N/A
	OCuLink for U.2	x8 from CPU2
Expansion Slots		2 x PCIe 3.0 x16
Ethernet	LAN Controller	N/A
	LAN Port	RJ45: 1(IPMI 2.0)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redfish, HTML 5.0 supported
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		5(2 from rear I/O, 1 Type A USB 3.0, 2 via header)
Mezzanine		2x Mezzanine Type A(1x for OCP LAN, 1x for Storage), 2x Mezzanine Type B, 1x Mezzanine Type C

- Compatible Mezzanine Type A: M350, M540, M599, M710, M350R, M3008S, M3108, M3008(only for board level)
- Compatible Mezzanine Type C: MP-557R2, MP-557R4, MP-4223R4, MP-4227R2, MP-1543R4

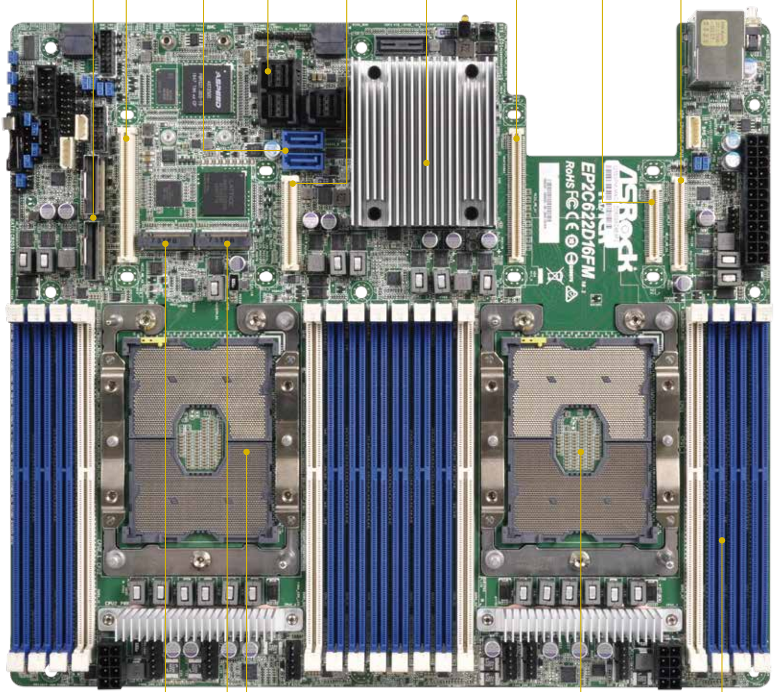
EP2C622D16FM

Xeon Scalable

3647

DDR4 2933

2933



Application

- HPC Application
- Scientific Computing
- Real-time Finance
- HFT

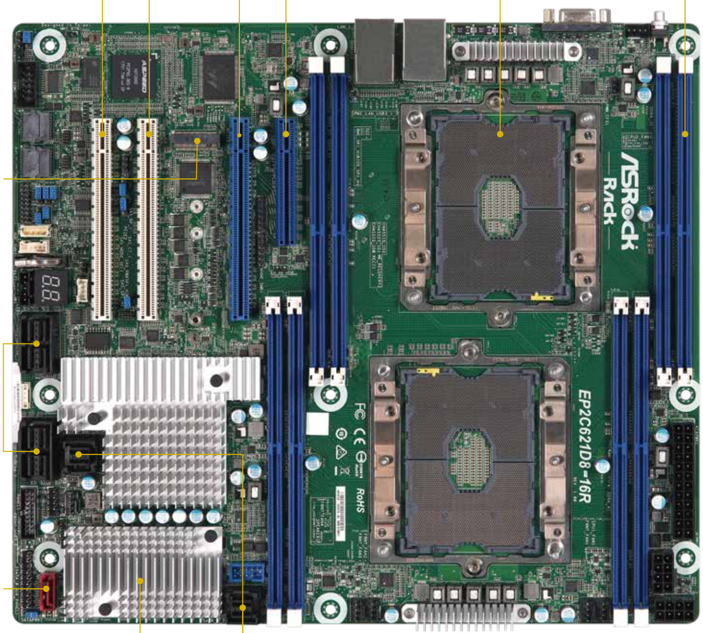
		EP2C622D16FM
Form Factor		SSI CEB(12" x10.5")
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W: design ready)
Chipset		Intel® C622
Memory		Six Channels, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel C622 : 14 x SATA3 6.0 Gb/s (12 from 3 x mini SAS connector + 2 x SATA connector +2 x M.2 ports from PCH) 2 x M.2 slot is shared with 2 x SATA connector
	Additional	N/A
Expansion Slots		2 x Slimline Connector x8, 2 x M.2 ports from PCH(PCIe x2 or SATA3 M.2)
Ethernet	LAN Controller	N/A
	LAN Port	RJ45:2+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redfish, HTML 5.0 supported
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management LAN
USB 3.0		2 (from rear I/O)
Mezzanine		2x Mezzanine Type A(1x for OCP LAN, 1x for Storage) 2x Mezzanine Type B, 1x Mezzanine Type C (Support OCP type)

- Compatible Mezzanine Type A: M350, M540, M599, M710, M350R, M3008S(only for board level)
- Compatible Mezzanine Type C: MP-557R2, MP-4223R4, MP-4227R2, MP-1543R4

EP2C621D8-16R

EP2C621D8

DDR4 2933 — 2933
Xeon Scalable — 3647
SAS3 12Gb/s LSI — SAS3 12Gb/s



Application

- Cloud and Virtualization needs
- Datacenter Computing
- Database Processing & Storage
- Web Hosting

SKU Option

	EP2C621D8-16R	EP2C621D8
Additional Storage	Broadcom SAS 3616	N/A

		EP2C621D8-16R	EP2C621D8
Form Factor		CEB(12"x10.5")	
Processor Support		Dual Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors	
Chipset		Intel® C621	
Memory		Six Channel, 8 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)	
Storage	Intel PCH	Intel® C621: 9 x SATA3 (including 1x SATA DOM port, 8 ports from 2x MiniSAS-HD) +1 x M.2	
	Additional	Broadcom SAS 3616: 16 x SAS/SATA3 (from 4x MiniSAS-HD x4) or 4 x NVME (NVME/ SATA switch by jumper setting)	N/A
Expansion Slots		3 x PCIe 3.0 x16, 1 x PCIe 3.0 x8	
Ethernet	LAN Controller	2 GLAN by Marvell 1543	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB 3.0		4(2 from rear I/O, 2 via header)	
M2		1 (22302/2242/2260/2280, PCIe 3.0(x4) or SATA3 6.0Gb/s)	

EPC621D8A

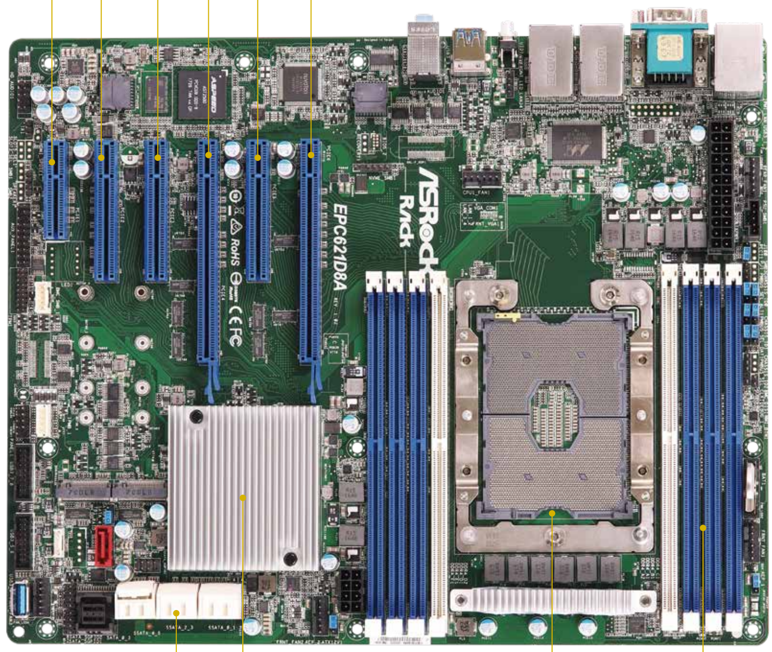
Xeon Scalable 3647

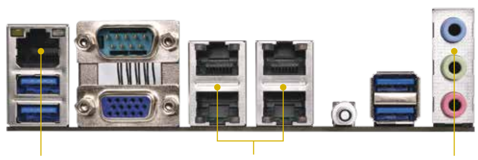
DDR4 2933 2933

Work-station Workstation

Application

- UP Solution for Application Server
- High-end Workstation
- Entry GPGPU Server
- Multi-display Server / Digital Signage
- Hadoop Application





		EPC621D8A
Form Factor		ATX(12" x9.6")
Processor Support		Single Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors(Max 205W)
Chipset		Intel® C621
Memory		Six Channels, 8 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage	Intel PCH	Intel C621 : 13x SATA3 (including 1 SATA DOM ports and 2 M.2 ports)
	Additional	N/A
Expansion Slots		2 x PCIe 3.0 x16, 3 x PCIe 3.0 x 8, 1 x PCIe 3.0 x 4
Ethernet	LAN Controller	1x Marvell 88E1543(support 4x GLAN)
	LAN Port	RJ45:4+1(IPMI 2.0)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redfish, HTML 5.0 supported
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		9 (4 from rear I/O, 1 Type A USB 3.0, 4 via header)

EPC621D4I-2M

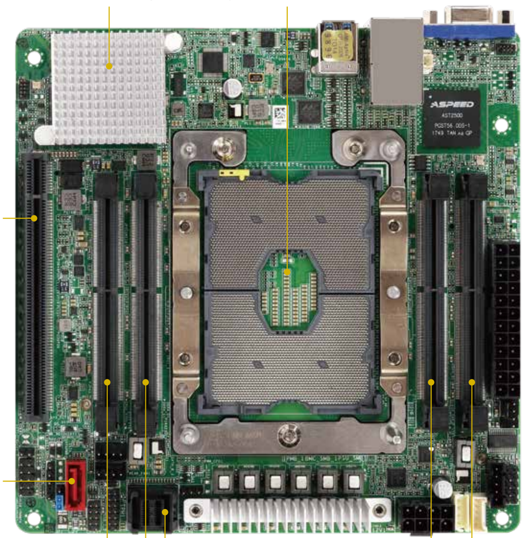
EPC621D6I

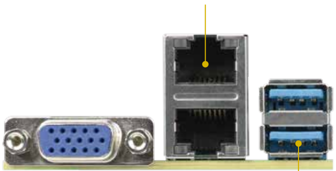
DDR4 2933

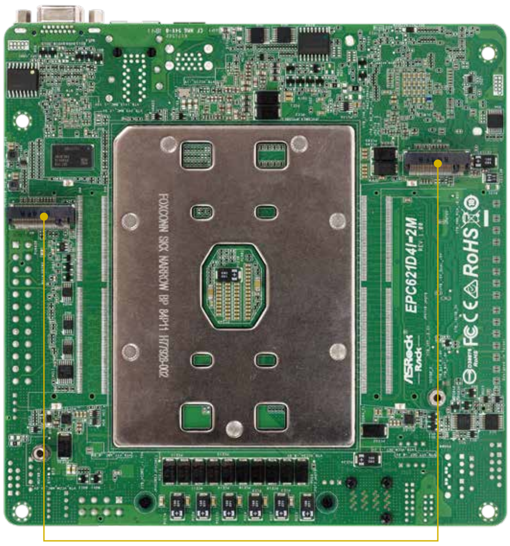
2933

Xeon Scalable

3647





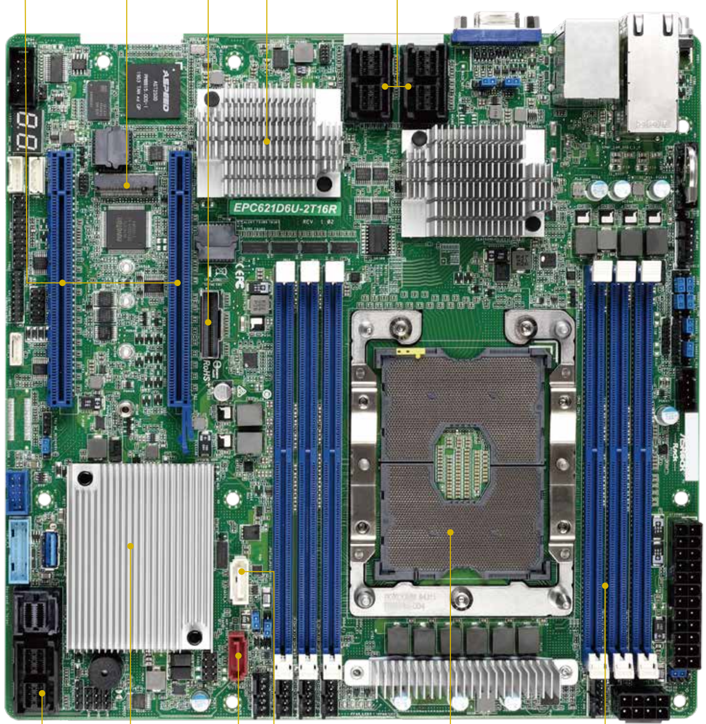


		EPC621D4I-2M	EPC621D6I
Form Factor		Mini-ITX (6.7"x 6.7", 17.02x17.02 cm)	
Processor Support		Supports Single Socket P LGA3647 2nd Gen. Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors (Max. 165W)	
Chipset		Intel® C621	
Memory		4 DIMM slots, Supports Quad Channel DDR4 2993/2666/ 2400 ECC SO R DIMM, ECC SO DIMM, and non-ECC SO DIMM (Max. 64GB)	6 DIMM slots, Supports Quad Channel DDR4 2993/2666/ 2400 ECC SO R DIMM, ECC SO DIMM, and non-ECC SO DIMM (Max. 64GB)
Storage	Intel PCH	Intel® C621: 7 x SATA3 6Gb/s (4 from mini-SAS HD , 1 x SATA DOM 6Gb/s and 2 x M.2 on bottom)), support RAID 0, 1, 5, 10	
	Additional	N/A	
Expansion Slots		1 x PCIe3.0 x16 (from CPU1)	
Ethernet	LAN Controller	2 x 1GbE RJ45 via Intel integrated MAC X722 + Marvell® 88E1514	
	LAN Port	2 GLAN Port (RJ45)	
USB 3.0		2 (from Rear I/O)	
USB 2.0		1 (2 via Header)	
M.2		2 (2280 from PCH (support PCIE x4 or SATA 6.0Gb/s)), on bottom side	

EPC621D6U-2T16R

EPC621D6U-16R
EPC621D6U-2T

2933	3647	SAS3 12Gb/s



Application

- Web Hosting and Virtual Machine
- Compact Network Appliance
- Web 2.0 Storage Server

SKU Option

	EPC621D6U-2T16R	EPC621D6U-16R	EPC621D6U-2T
LAN	Intel® X550	Intel® i350	Intel® X550
Additional Storage	Broadcom SAS 3616	Broadcom SAS 3616	N/A

		EPC621D6U-2T16R	EPC621D6U-16R	EPC621D6U-2T
Form Factor		Micro ATX (9.6"x9.6")		
Processor Support		Single Socket P LGA 3647, Supports 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors		
Chipset		Intel® C621		
Memory		Six Channel, 6 DIMM Slots, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)		
Storage	Intel PCH	Intel® C621: 14 x SATA3 (including 1 x SATA DOM port, 12 ports from 3x miniSAS-HD)		12 x SATA3 (12 ports from 3 miniSAS-HD, 1 x SATA DOM, 1 x M.2 (share with SATA DOM), 1 x SATA 7pin
	Additional	Broadcom SAS 3616: 16 x SAS/SATA3 (from 4 x miniSAS-HD x4) or 4 x NVME (NVME/ SATA switch by jumper setting)		N/A
Expansion Slots		2 x PCIe3.0 x16		
Ethernet	LAN Controller	Intel® X550	Intel® i350	Intel® X550
	LAN Port	RJ45:2+1(IPMI)		
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support		
	IPMI dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN		
USB 3.0		4(2 from rear I/O, 2 via header)		
M.2		1(share with SATA DOM, 2230/2242/2260/2280 , support PCIE(x4) or SATA3 6.0Gb/s))		
SATA DOM		1 (shared with M.2)		

C236 WSI4-85

C236 WSI4-85L

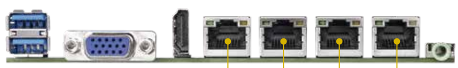
C236 WSI4-65L

DDR4 Workstation

Application

- Professional Graphic Workstation Board
- Video Transcoding

	C236 WSI4-85	C236 WSI4-85L	C236 WSI4-65L
CPU	E3-1585 V5:65W	E3-1585L v5:45W	E3-1565L v5:35W

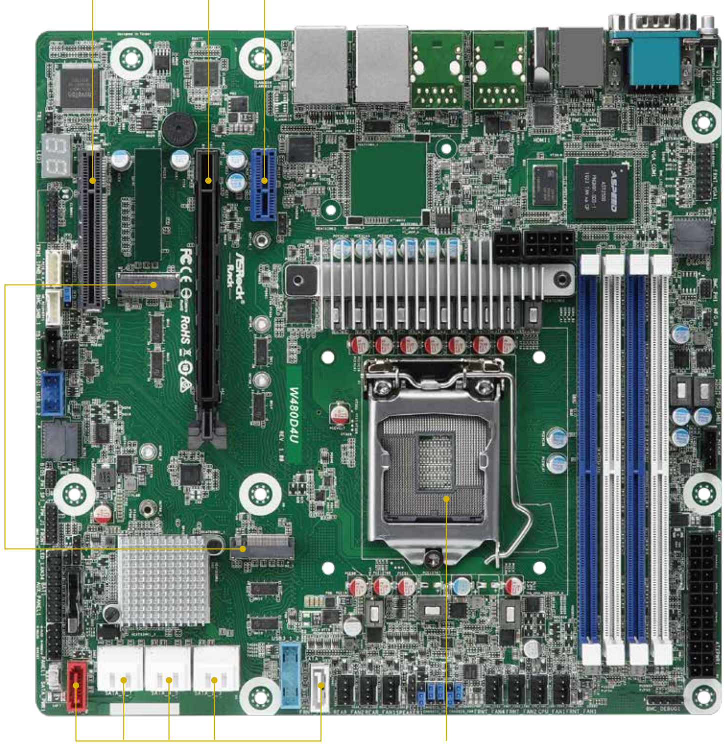


		C236 WSI4-85	C236 WSI4-85L	C236 WSI4-65L
Form Factor		Mini ITX(6.7''x 6.7'')		
Processor Support		Support Intel® Xeon® E3-1500 v5 Series Processors BGA (65W)		
CPU		E3-1585 v5:65W	E3-1585L v5:45W	E3-1565L v5: 35W
Memory		4 DIMMs, DDR4 2133/1866 ECC/non-ECC SO DIMM		
Storage	Intel PCH	6x SATA3 by Intel® C236		
	Additional	N/A		
Expansion Slots		1 x PCIe 3.0 x16		
Ethernet	LAN Controller	Intel® i210+Intel® i219LM		
	LAN Port	RJ45:4		
Graphics	Controller	CPU pGFX		
USB 3.0		5(2 from rear I/O, 1 from Type A, 2 via header)		

W480D4U

2933

Micro ATX



Application

- SOHO
- SMB
- Entry Server

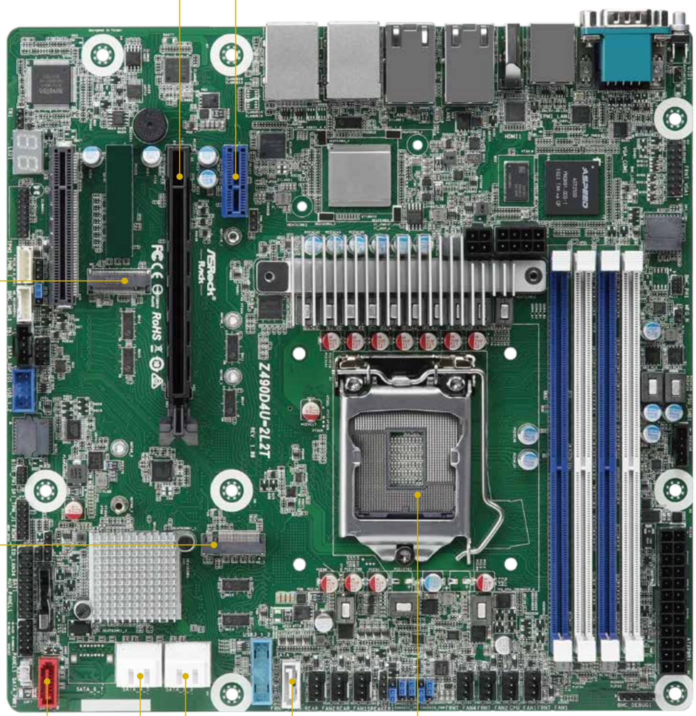
		W480D4U
Form Factor		micro ATX (9.6'' x 9.6'')
Processor System	CPU	Socket LGA1200, supports Intel® Xeon® W-1200, 10th Gen Intel® Core™ Processors
	PCH	Intel® W480
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/ UDIMMs up to 2933MHz 32GB
Expansion	PCIe slot	1 PCIe 3.0 x16, 1 PCIe 3.0 x8, 1 PCIe 3.0 x1
Storage	M.2	2 M-key (PCIe 3.0 x4), supports 22110/2280/2260 and 2280/2260 form factor
	SATA port	8 SATA 6Gb/s (1 support SATA DOM)
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB 3.2 Gen 2 Ports: 2 rear Type A
		4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header
		2 USB 2.0 Ports: 2 via header
	Video	1 DB15(VGA), 1 HDMI

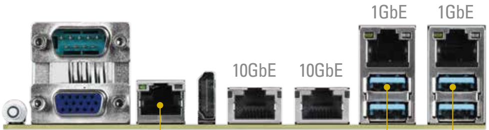
Z490D4U-2L2T

2933 | Micro ATX | 10Gbase-T

Application

- Cloud Gaming
- HFT Server

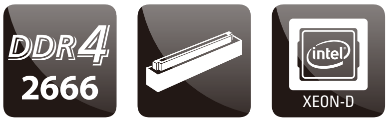




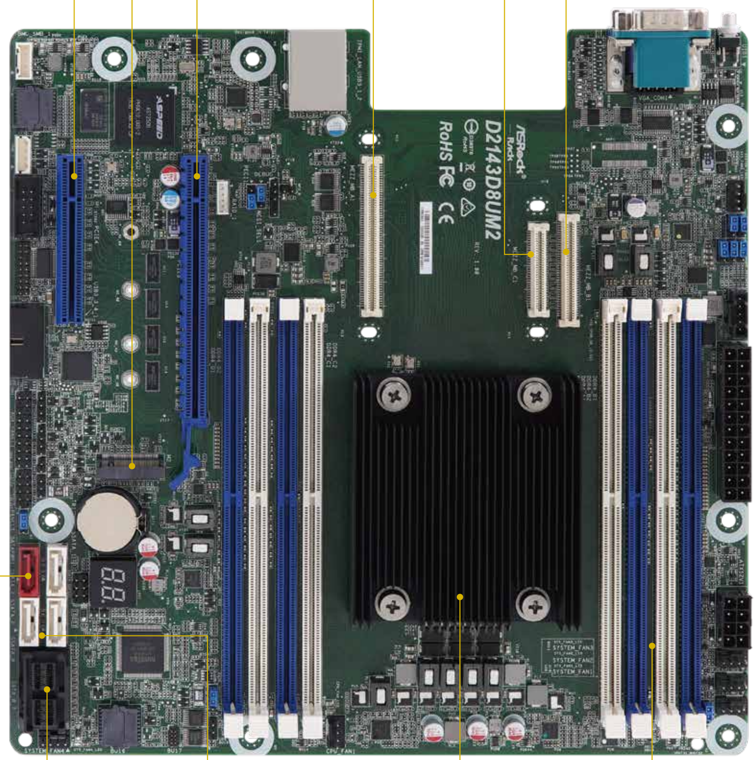
		Z490D4U-2L2T
Form Factor		micro ATX (9.6'' x 9.6'')
Processor System	CPU	Socket LGA1200, supports Intel® 10th Gen. Core™ i9/i7/i5/i3, Pentium, Celeron® Series Processors
	PCH	Intel® Z490
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/ UDIMMs up to 2933MHz 32GB
Expansion	PCIe slot	1 PCIe 3.0 x16, 1 PCIe 3.0 x8, 1 PCIe 3.0 x1
Storage	M.2	2 M-key (PCIe 3.0 x4), supports 22110/2280/2260 and 2280/2260 form factor
	SATA port	6 SATA 6Gb/s (1 support SATA DOM)
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB 3.2 Gen 2 Ports: 2 rear Type A 4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header 2 USB 2.0 Ports: 2 via header

D2143D8UM2

D2123D8UM2



2666 | Mezz Slot | XEON-D



Application

- Network Security Appliances
- SMB storage servers
- Hadoop
- Web hosting / Co-location

SKU Option

	D2143D8UM2	D2123D8UM2
Chipset	D2143	D2123

		D2143D8UM2	D2123D8UM2
Form Factor		Micro-ATX(9.6"x9.6")	
Processor Support		Intel® Xeon® D-2143 Processor	Intel® Xeon® D-2123 Processor
Chipset		SoC	
Memory		Four Channels, 8 DIMMs, DDR4 2666/2400/2133 ECC UDIMM,RDIMM, LR DIMM (*the speed depends on SoC SKU. LR DIMM by BOM option)	
Storage	Intel PCH	Intel® Xeon® D-2100: 12 x SATA3 6.0 Gb/s (8 ports form 2x miniSAS HD, 4 port from SATA 7-pin include 1 SATA DOM)	
Expansion Slots		1 x PCIe 3.0 x16, 1 x PCIe 3.0 x8	
Ethernet	LAN Controller	N/A, No on Board LAN, X722(SoC integrated), Please use Mezzanine Type LAN Card (A/B/C Type)	
	LAN Port	RJ45:1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB3.0		2	
M.2		1(2230/2242/2260/2280, support PCIe 3.0(x4) or SATA 3 6.0Gb/s)	
SATA DOM		1 (share with 1x SATA port)	

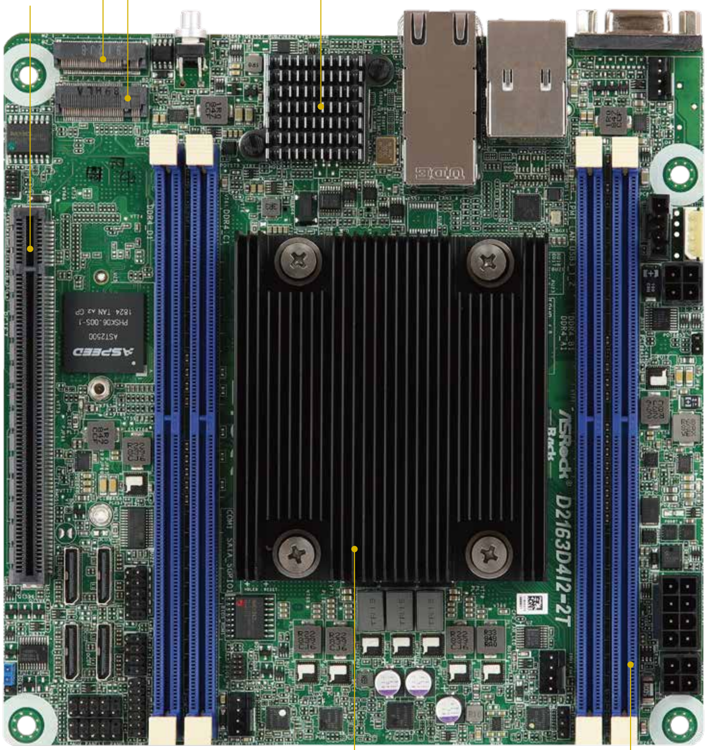
- Compatible Mezzanine Lan Card(Type A): M350, M350R, M540, M599, M710, MX710R, MCX3, MCX4LX
- Compatible Mezzanine Lan Card(Type C): MP-1543R4, MP-4227R2, MP-557R2
- Compatible Mezzanine Storage Card:M3008S

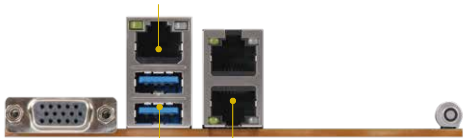
D2163D4I2-2T

D2143D4I2-2T

DDR4 2666 | XEON-D | 10G

2666 | XEON-D | 10Gbase-T





Application

- Network Security Appliance
- SDN-WAN, vCPE Controller Systems
- NFV and Edge Computing Server
- Virtualization Server
- IoT Edge Computing / Gateway

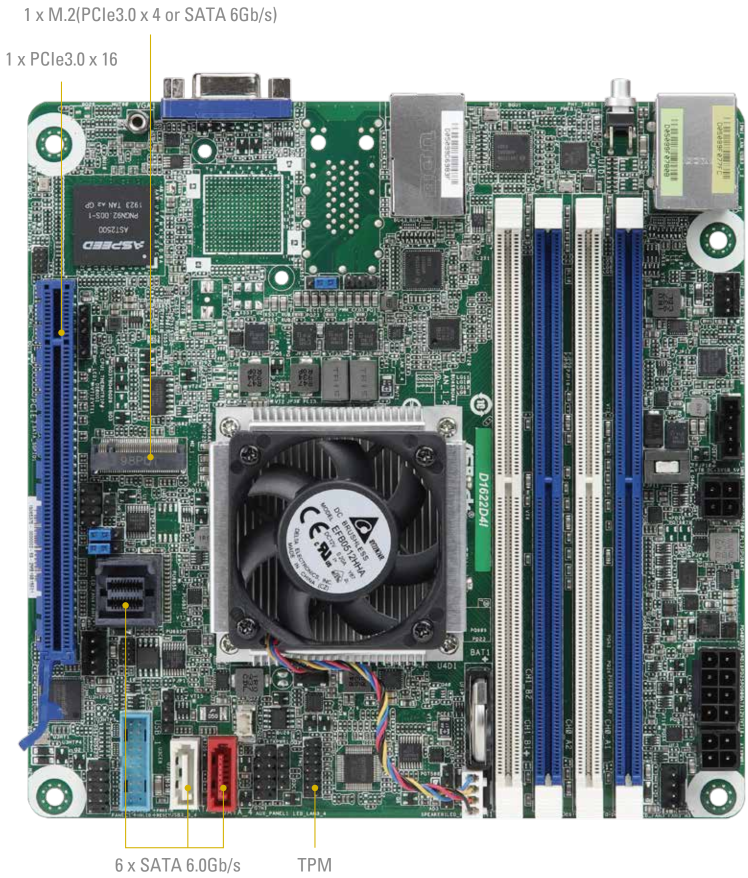
		D2163D4I2-2T	D2143D4I2-2T
Form Factor		Mini-ITX(6.7"x6.7")	
Processor Support		Intel® Xeon® D2163 Processor	Intel® Xeon® D2143 Processor
Chipset		SoC	
Memory		Four Channels, 4 DIMM Slots, DDR4 2666/2400/2133 ECC UDIMM,RDIMM, LR DIMM (*the speed depends on SoC SKU. LR DIMM by BOM option)	
Storage	Intel PCH	Intel® Xeon® D-2143: 4 x SATA3 6.0 Gb/s (4 ports form SFF-8643)	
	OCulink for U.2 or SATA DOM	3 (Slimline x8 from CPU2, OCulink x4 from CPU2, OCulink x4 from CPU2)	
Expansion Slots		1 x PCIe 3.0 x16	
Ethernet	LAN Controller	2 x RJ45 10GLAN by Intel® X557-AT2	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB 3.0		2(from rear I/O)	
M.2		1 (M-key, only 2242, support PCIe3.0(x4) or SATA3 6.0Gb/s) , 1(M-Key, 2280/22110, supoort PCIe3.0(x4) or SATA3 6.0Gb/s)	

Intel® Xeon D

D1653ND4I-2L2T

D1622D4I

DDR4

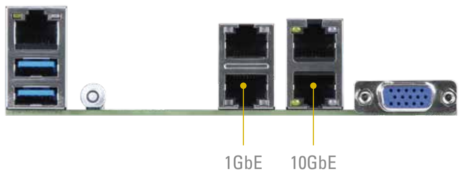


Application

- Edge network appliances
- SMB NAS
- Cloud backup

SKU Option

	D1653ND4I-2L2T	D1622D4I
SoC	Intel D1653N	Intel D1622
LAN	2 RJ45(10GbE) by Intel X557-AT2, 2 RJ45 (1GbE) by Intel i210	2 RJ45 (1GbE) by Intel i210



		D1653ND4I-2L2T	D1622D4I
Form Factor		Mini-ITX (6.7" x 6.7")	
Processor System	CPU	Intel® Xeon® D 1653N Processor	Intel® Xeon® D 1622 Processor
	PCH	System on chip	
Memory	Capacity	4 DIMM slots (2DPC); supports DDR4 ECC/ UDIMM up to 2400 MHz, 16GB/ RDIMM up to 2400MHz, 32GB	4 DIMM slots (2DPC); supports DDR4 ECC/ UDIMM up to 2133 MHz, 16GB/ RDIMM up to 2133MHz, 32GB
Expansion	PCIe slot	1 PCIe3.0 x16	
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor	
	SATA port	2 SATA 7-pin* (1 support SATA DOM), 4 via mini-SAS HD	
Network	RJ45	2 RJ45 (10GbE) by Intel® X557-AT2 2 RJ45 (1GbE) by Intel® i210-AT2	2 RJ45 (1GbE) by Intel® i210-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header	

• 1 SATA 7-pin shared with M.2 SATA interface

D1541D4U-2T8R

D1541D4U-2O8R
D1541D4U-2L+
D1521D4U-2L+

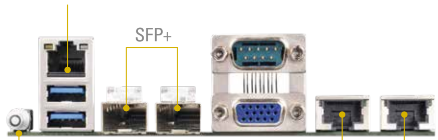
DDR4 SOC Micro ATX

Application

- Warm Storage Server
- Virtualization, Big Data and Database Server

SKU Option

	D1521D4U-2L+	D1541D4U-2L+	D1541D4U-2T8R	D1541D4U-2O8R
Intel CPU	D1521	D1541	D1541	D1541
LSI 3008	NA	NA	V	V
LAN	1 x Intel® i350 (Support 2x GLAN)	1 x Intel® i350 (Support 2x GLAN)	1 x Intel® X540 (Support 2x GLAN)	1 x Intel®CS4227 (Support 2x 10G ber, SFP+)



		D1521D4U-2L+	D1541D4U-2L+	D1541D4U-2T8R	D1541D4U-2O8R
Form Factor		Micro ATX(9.6"x 9.6")			
Processor Support		support Intel® Xeon® D1521 Processors	support Intel® Xeon® D1541 Processors		
Memory		4 DIMMs, DDR4 2400/2133/1866/1600 R/ECC/Non-ECC U DIMM			
Storage	Intel PCH	6 x SATA3 6.0 Gb/s by Intel® D1521	D1541: 6 x SATA3 6Gb/s		
	Additional	N/A		LSI3008 support 8 x SAS3 12Gbps by mini SAS HD connector (switch with slot 7) Marvell 9172 for 2 ports to M.2	
Expansion Slots		1 x PCIe 3.0 x16, 1 x PCIe 3.0 x8	1 x PCIe 3.0 x16, 1 x PCIe 3.0 x8, 2 x M.2		
Ethernet	LAN Controller	1 x Intel® i350 (Support 2x GLAN)		1 x Intel® X540 (Support 2x GLAN)	1 x Intel®CS4227 (Support 2x 10G Fiber, SFP+)
	LAN Port	RJ45:2+1(IPMI)			
System management	BMC Controller	ASPEED AST2400			
	IPMI dedicated GLAN	Realtek RTL8211E			
USB 3.0		4(2 from rear I/O,1 via header,1 from Type A)			

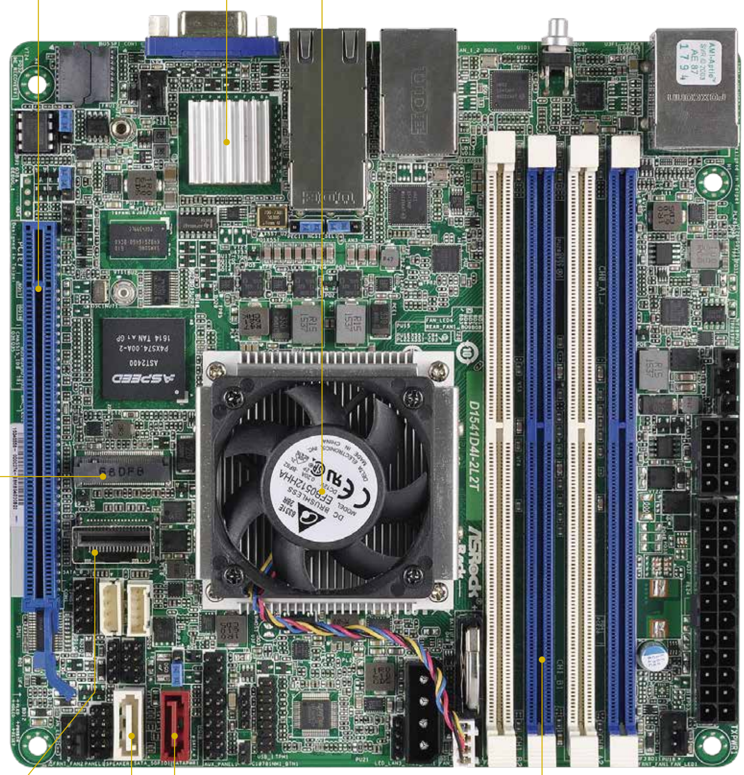
D1541D4I-2L2T

D1541D4I

D1521D4I

DDR4

SOC

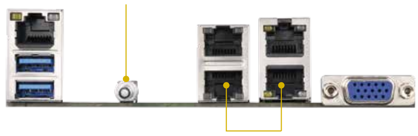


Application

- Dynamic Web Serving,
- Network Appliance or Firewall
- Mini Rendering Machine

SKU Option

	D1541D4I-2L2T	D1541D4I	D1521D4I
Intel CPU	D1541	D1541	D1521
10G LAN	V	N/A	N/A

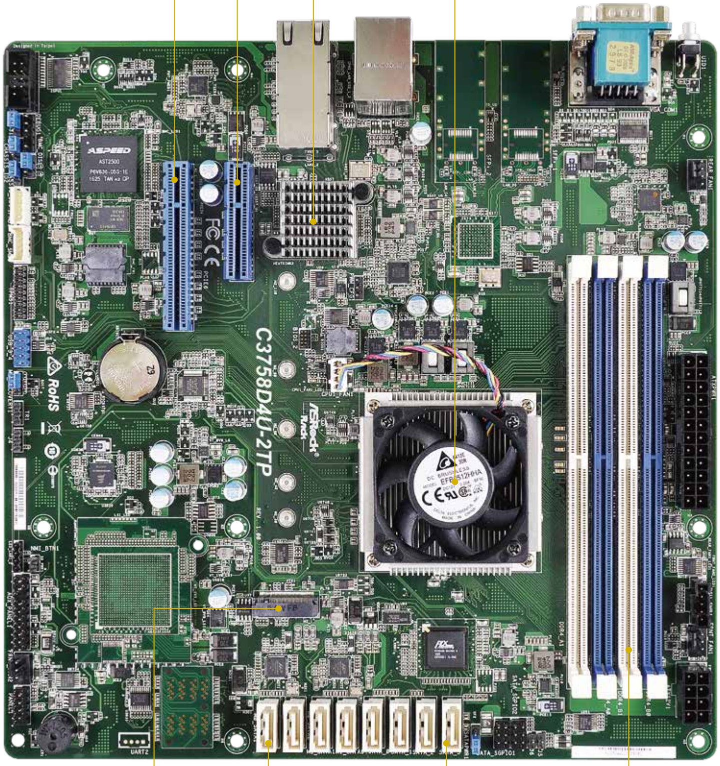


		D1541D4I-2L2T	D1541D4I	D1521D4I
Form Factor		Mini ITX(6.7"x 6.7")		
Processor Support		Support Intel® Xeon® D1541 Processor		Support Intel® Xeon® D1521 Processors
Memory		4 DIMM, DDR4 2400/2133/1866 R/ECC U DIMM memory		
Storage	Intel PCH	6 x SATA3 6.0 Gb/s by Intel® D1541 Series		
	Additional	N/A		
Expansion Slots		1 x PCIe 3.0 x16		
Ethernet	LAN Controller	2 x Intel® X557-AT2 (Support 2x 10G Base-T) + 2 x Intel® i210(Support 2x GLAN)	2 x Intel® i210(Support 2x GLAN)	
	LAN Port	RJ45:4+1(IPMI)	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED AST2400		
	IPMI dedicated GLAN	Realtek RTL8211E		
USB 3.0		2(2 from rear I/O)		
M.2		1 slot (PCIE, support form factor 2242/2280)		

C3758D4U-2TP

C3558D4U-2OP

DDR4 | Micro ATX | SOC



Application

- Cold Storage Control Node
- Advanced NAS
- Static Web Content Server Application

SKU Option

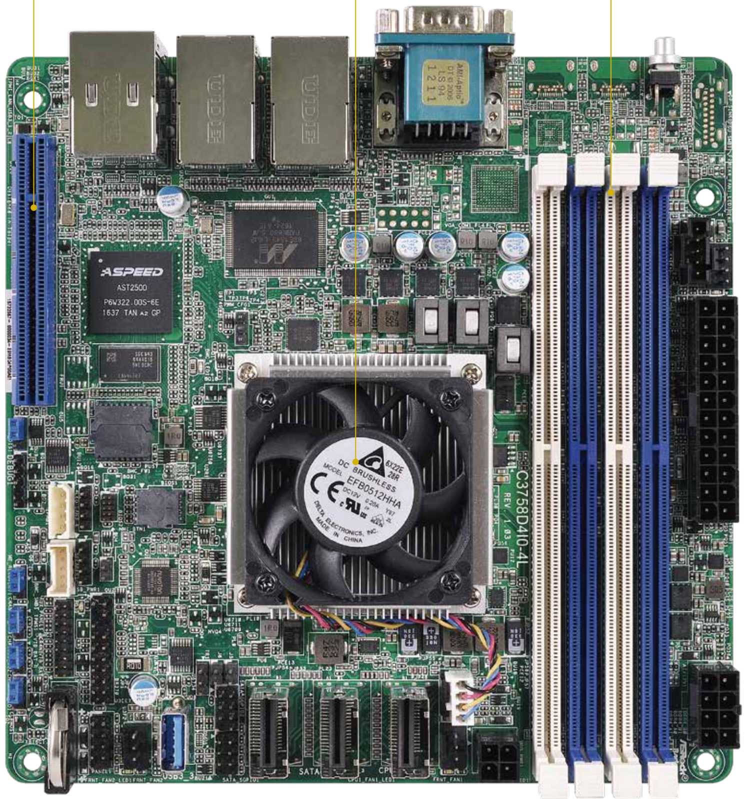
	C3758D4U-2TP	C3558D4U-2OP
Intel CPU	INTEL ATOM C3758: 25W	INTEL ATOM C3558: 16W
LAN	Intel® X557	CS4227

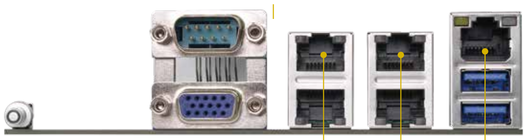
		C3758D4U-2TP	C3558D4U-2OP
Form Factor		Micro ATX (9.6" x9.6")	
Processor Support		Support Intel® Atom® Processor C3758: 8core, 25W	Support Intel® Atom® Processor C3558: 4core, 16W
Chipset		SoC	
Memory		Dual Channel, 4 DIMMs, DDR4 2400/2133/1866/1600 RDIMM, ECC DIMM and U DIMM	
Storage	Intel PCH	Intel® C3758 : 4 x SATA3 6.0 Gb/s (PORT SATA_3 switch with M.2)	Intel® C3558 : 4 x SATA3 6.0 Gb/s (PORT SATA_3 switch with M.2)
	Additional	Marvell 9172 x2 for 4 port SATA3 6.0 Gb/s	
Expansion Slots		1 x PCIe 3.0 x8,1 x PCIe 3.0 x4	
Ethernet	LAN Controller	2 x RJ45 10GLAN by Intel® X557	2x 10G fiber, SFP+ by PCH CS4227
	LAN Port	RJ45:2+1(IPMI 2.0)	2 x 10G SFP+ Optical Fiber +1x RJ45(IPMI 2.0)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redsh, HTML 5.0 supported	
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management LAN	
USB 2.0		4 (2 from rear I/O, 2 via header)	
SATA DOM		1(share with SATA_0)	

C3758D4I-4L

C3558D4I-4L
C3338D2I-4L

DDR4 SOC





Application

- SOHO/Enterprise NAS
- Home Server
- Static Web Content Server Application

SKU Option

	C3758D4I-4L	C3558D4I-4L
Intel CPU	C3758: 8core, 25W	C3558: 4core, 16W
Storage Capacity	Intel® C3758 : 13 x SATA3 6.0 Gb/s	Intel® C3558 : 5 x SATA3 6.0 Gb/s

		C3758D4I-4L	C3558D4I-4L	C3338D2I-4L
Form Factor		Mini ITX (6.7" x6.7")		
Processor Support		Support Intel® Atom® Processor C3758: 8core, 25W	Support Intel® Atom® Processor C3558: 4core, 16W	Suuports Intel® Atom® Processor C3338: 2core, 9W
Chipset		SoC		
Memory		Dual Channel, 4 DIMMs, DDR4 2400/2133/1866/1600 RDIMM, ECC DIMM and U DIMM		2 DIMM Slots, Supports One Channel DDR4 2400/2133/1866 U DIMM, ECC DIMM, R DIMM
Storage	Intel PCH	Intel® C3758 : 13 x SATA3 6.0 Gb/s (SATA 0~3: SATA 7-pin connector, SATA4~11 : 8x SATA port from 2x mini SAS HD connector, SATA 12 with SATA 7-pin connector and SATA DOM support)	Intel® C3558 : 5 x SATA3 6.0 Gb/s (SATA 8~11 : SATA port from mini SAS HD connector, SATA 12 with SATA 7-pin connector and SATA DOM support)	Intel C3338 : 5 x SATA3 6.0 Gb/s, 4x SATA ports from 1x mini SAS HD connectors
	Additional	N/A		
Expansion Slots		1 x PCIe 3.0 x8 (x4 share with SATA by BIOS config.)	1 x PCIe 3.0 x8 (share x4 with SATA 8-11)	1 x PCIe 3.0 x8 (MAX x2 by BIOS setup)
Ethernet	LAN Controller	Marvell 88E1543(4L)		
	LAN Port	RJ45:4+1(IPMI 2.0)		
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia, redfish, HTML 5.0 supported		
	IPMI dedicated GLAN	1 x Realtek RTL8211E for dedicated management GLAN PIN		
USB 3.0		2 (from rear I/O)		
SATA DOM		N/A	1 SATA DOM by Intel Atom C3558	2 x SATA DOM by Intel Atom C3338

AMD RYZEN THREADRIPPER

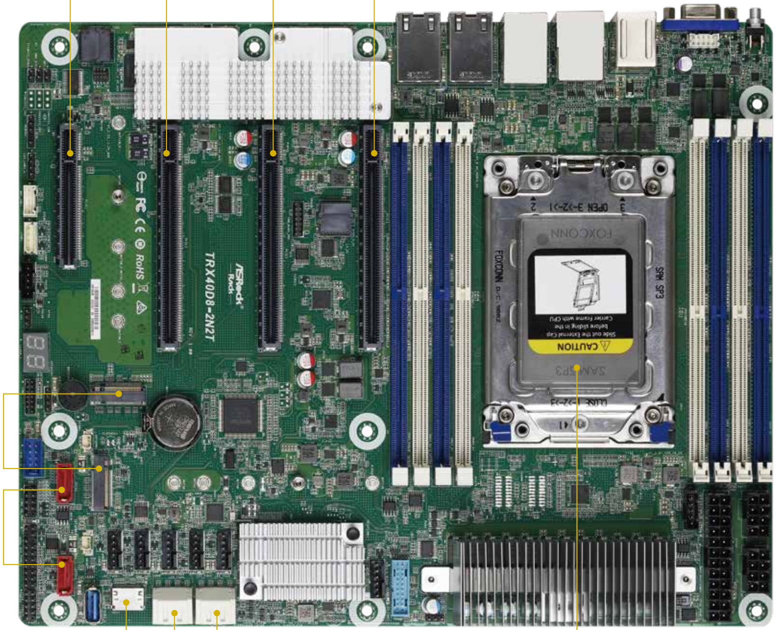
TRX40D8-2N2T

EPYC Series
4094

DDR4 3200
3200

10G
10Gbase-T

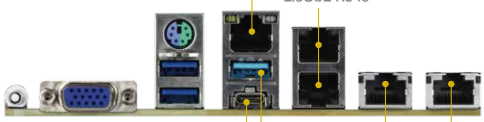
PCI-E 4.0
PCI-E 4.0



AMD Ryzen™ Threadripper Gen 3.0

Application

- Video Streaming
- Highend Workstation



		TRX40D8-2N2T
Form Factor		ATX (12" x 9.6")
Processor System	CPU Socket	sTRX4 (LGA4094P), supports 3rd Gen AMD Ryzen™ Threadripper™ Series Processors
	PCH	AMD TRX40
Memory	Capacity	8 DIMM slots (2DPC), supports DDR4 ECC and non-ECC UDIMM, up to 3200MHz 32GB per DIMM
Expansion	PCIe slot	3 PCIe 4.0 x16, 1 PCIe 4.0 x8
	Others	1 OCulink (PCIe 4.0 x4) [BTO]
Storage	M.2	2 M-key (PCIe 4.0 x4 or SATA 6Gb/s); Form factor: 22110/2280/2260/2242
	SATA port	AMD TRX40: 4 SATA 6Gb/s (2 supports SATA DOM), ASM 1061: 2 SATA 6Gb/s
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (2.5 GbE) by Intel® i225
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	IPMI Dedicated LAN	1 x Realtek RTL8211E for Dedicated Management GLAN
I/O	USB	USB 3.2 Gen 2 Port: 1 rear Type A, 1 rear Type C
		USB 3.2 Gen 1 Port: 2 rear Type A, 2 via header, 1 type A

AMD RYZEN THREADRIPPER

AMD Ryzen™ Threadripper Gen 1.0

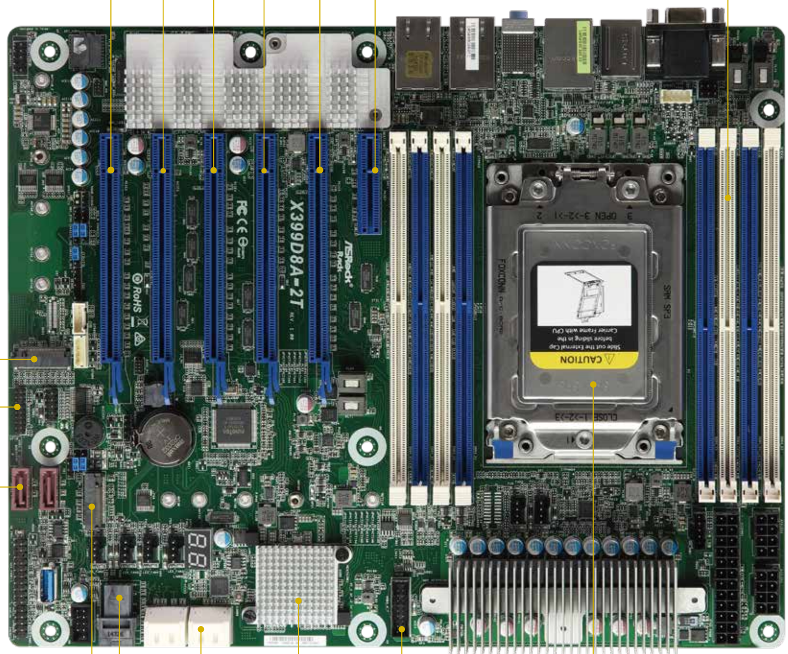
X399D8A-2T

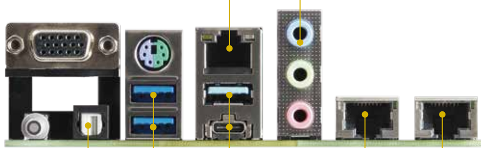
10G

10Gbase-T

DDR4

DDR4





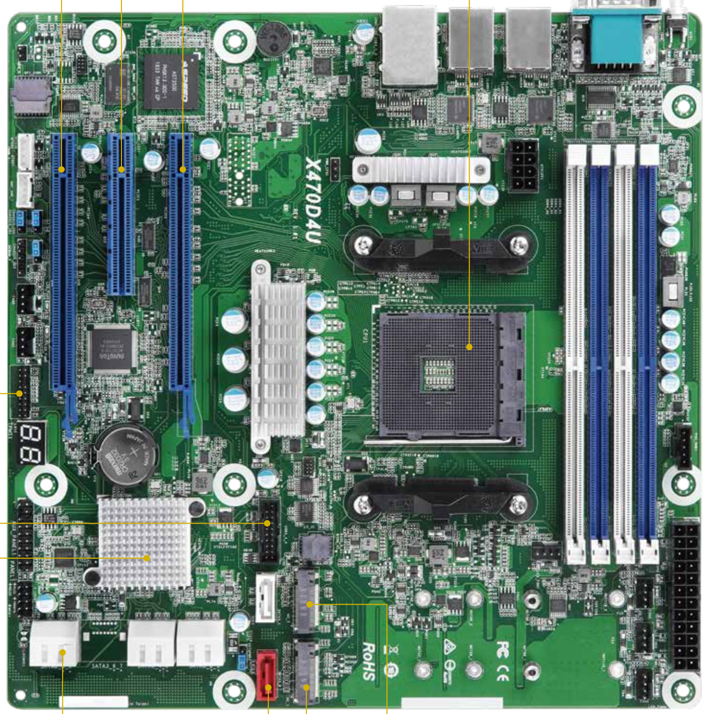
		X399D8A-2T
Form Factor		ATX (12" x 9.6")
Processor Support		Single Socket LGA SP3 4094P, Supports AMD TR4 Socket Ryzen Threadripper Series Processors
Chipset		AMD X399
Memory Capacity		8 DIMM Slots, Supports Dual Channel DDR4 3600+(OC)/3200(OC)/2933(OC)/2666/2400/2133 ECC and non-ECC U DIMM (Max 64GB(SR)/128GB(DR))
Storage	SATA Controller	8 x SATA 6Gb/s (including 1 x M.2)
	Additional	ASMedia 1061: 2 x SATA3 6.0Gb/s
Expansion Slots		3 x PCIe 3.0 x16, 2 x PCIe 3.0 x8, 1 x PCIe 3.0 x4
Ethernet	LAN Controller	2 x RJ45 10GLAN by Intel® X550-AT2
	LAN Port	RJ45: 2(10G) + 1(IPMI)
USB 3.0		4 (2 from Rear I/O, 2 via Header)
USB 3.1		2 (1 Type A, 1 Type C from Rear I/O)
M.2		1x M-Key(2230/2242/2260/2280/22110, support PCIe3.0(x4) or SATA3 6Gb/s) 1x M-key(2230/2242/2260/2280/22110, Support PCIe3.0(x4) , reserved BOM option for OCulink)

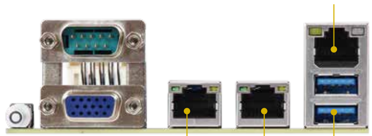
AMD RYZEN

X470D4U

DDR4 2666

2666





Application

- Cloud Computing
- Web Cache
- Web Hosting

		X470D4U
Form Factor		Micro-ATX(9.6"x9.6")
Processor Support		Single Socket AM4 PGA 1331, AMD Ryzen™ PRO/ 3000 and 2000 Series Desktop Processors
Chipset		AMD Promontory X470
Memory		4 DIMM Slots, Dual Channel DDR4 2666/2400/2133/1866 ECC UDIMM (Max. 64GB)
Storage	SATA controller	6 x SATA3 6.0 Gb/s (1 x SATA DOM port)
	Additional SATA Controller	N/A
Expansion Slots		2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8
Ethernet	LAN Controller	Intel® I210
	LAN Port	RJ45:2+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
USB 3.0		4(2 from Rear I/O, 2 via Header)
M.2		2(M.2_2: M-key (2242/2260/2280/22110,Support PCIe 3.0 x2 or SATA 6Gb/s), M.2_1: M-key (2242/2260/2280/22110, Supports PCIE2.0 x4 only))

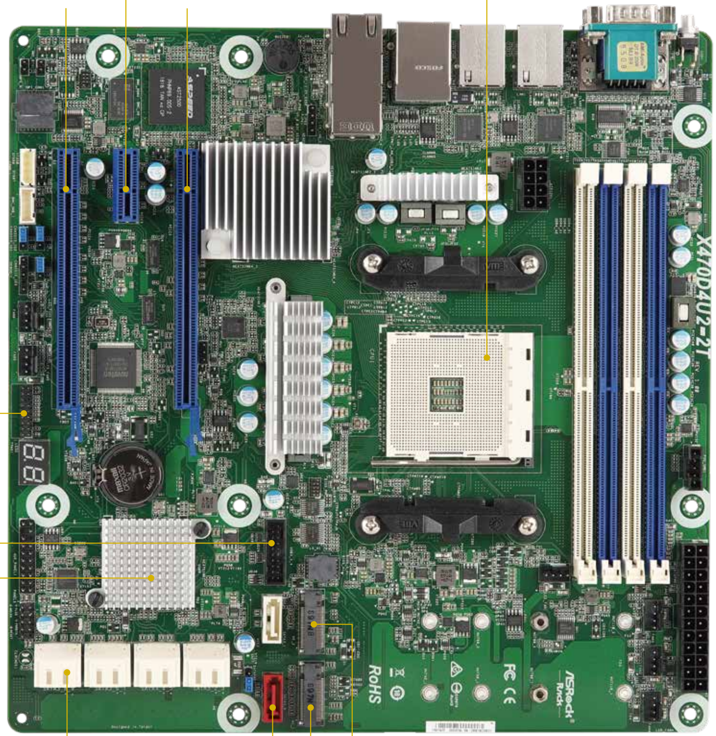
AMD Ryzen

AMD RYZEN

X470D4U2-2T

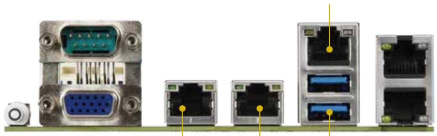
2666

10Gbase-T



Application

- Cloud Computing
- Web Cache
- Web Hosting



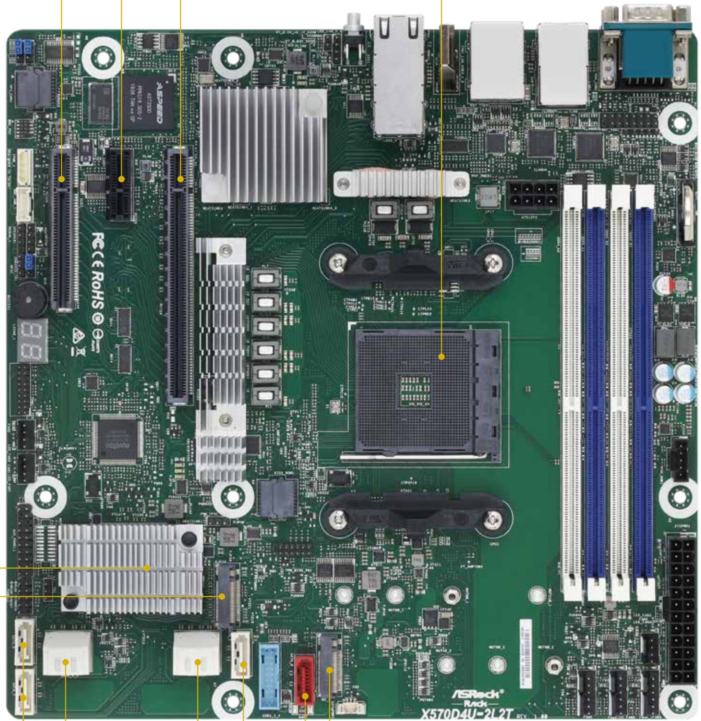
		X470D4U2-2T
Form Factor		Micro-ATX(9.6"x9.6")
Processor Support		Single Socket AM4 PGA 1331, AMD Ryzen™ PRO/ 3000 and 2000 Series Desktop Processors
Chipset		AMD Promontory X470
Memory		4 DIMM Slots, Dual Channel DDR4 2666/2400/2133/1866 ECC UDIMM (Max. 64GB)
Storage	SATA controller	6 x SATA3 6.0 Gb/s (1 x SATA DOM port)
	Additional SATA Controller	ASMedia 1061: 2 x SATA3 6.0Gb/s
Expansion Slots		2 x PCIe3.0 x16, 1 x PCIe3.0 x8
Ethernet	LAN Controller	2 x RJ45 10GLAN by Intel® X557
	LAN Port	RJ45:2+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
USB 3.0		4 (2 from Rear I/O, 2 via Header)
M.2		2 (M.2_2: M-key (2242/2260/2280/22110,Support PCIe3.0 x2 or SATA 6Gb/s), M.2_1: M-key (2242/2260/2280/22110, Supports PCIe2.0 x4 only))

AMD RYZEN

X570D4U-2L2T

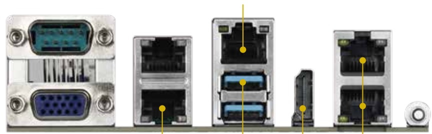
DDR4 3200 | Micro ATX | 10G

3200 | Micro ATX | 10Gbase-T



Application

- Web hosting
- PCIe4.0 NVMe storage server



AMD Ryzen

		X570D4U-2L2T
Form Factor		micro ATX (9.6'' x 9.6'')
Processor System	CPU	AM4 PGA 1331, supports 3rd Gen AMD Ryzen™ Processors and 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics
	PCH	AMD X570
Memory	Capacity	4 DIMM slots (2DPC); supports DDR4 ECC/UDIMM up to 3200MHz, 32GB
Expansion	PCIe slot	1 PCIe4.0 x16/ x8, 1 PCIe4.0 x1, 1 PCIe4.0 x8
	Others	-
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU]
		1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [PCH]
	SATA port	8 SATA 6Gb/s, 1 supports SATA DOM
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2, 2 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header

- PCIe4.0 is supported by 3rd Gen AMD Ryzen™ Processors only
- HDMI is supported by 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics only

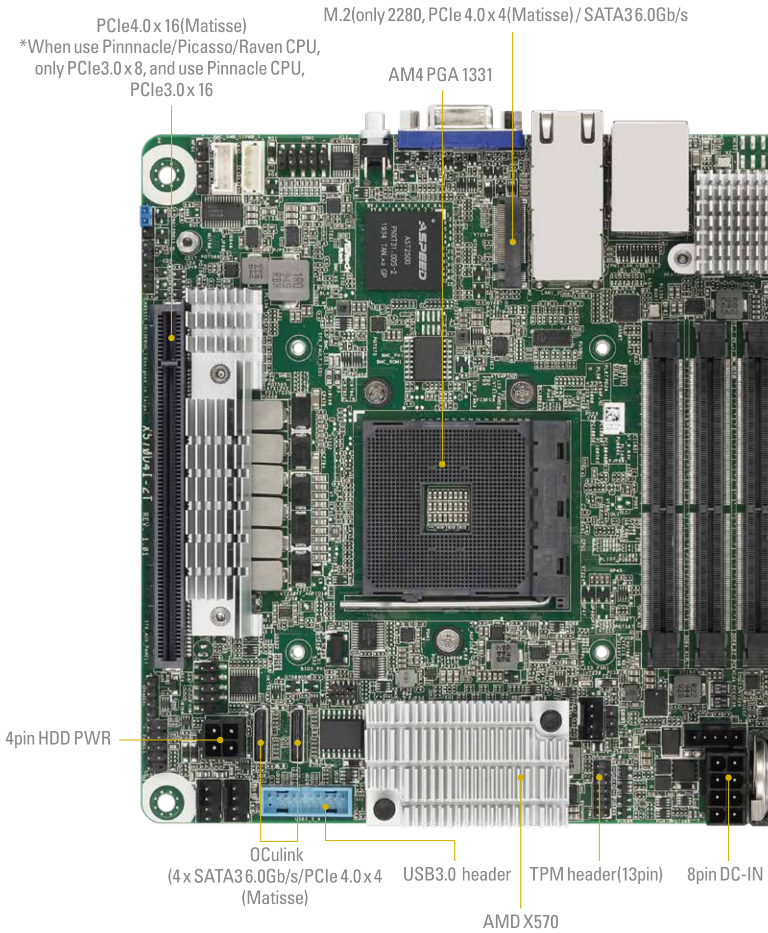
AMD RYZEN

AMD Ryzen

X570D4I-2T

2933

10Gbase-T



Application

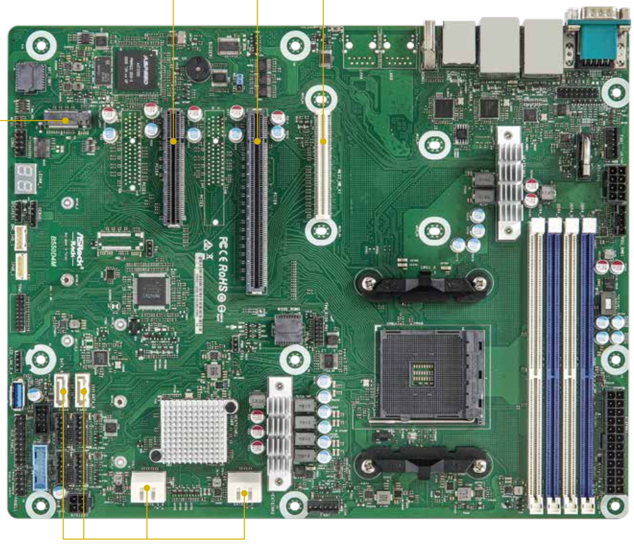
- Multi-node server
- IOT edge server

		X570D4I-2T
Form Factor		Mini-ITX (6.7" x 6.7")
Processor System	CPU	AM4 PGA 1331, supports 3rd Gen AMD Ryzen™ Processors and 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics
	PCH	AMD X570
Memory	Capacity	4 DIMM slots (2DPC); supports DDR4 ECC/SO-DIMM up to 2933MHz, 32GB
Expansion	PCIe slot	1 PCIe4.0 x16
	Others	2 Oculink (PCIe4.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	8 via Oculink
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header

- PCIe4.0 is supported by 3rd Gen AMD Ryzen™ Processors only

B550D4M

3200 | PCI-E 4.0 | ECC Memory



Application

- SMB Entry Server
- Entery Firewall/ Network appliance
- General Purpose Server

		B550D4M
Form Factor		ATX (12” x 9.6”)
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 Series Desktop Processors AMD Ryzen™ 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ PRO 4000 and 3000 Series Note1 Desktop Processors 3rd Gen AMD Ryzen™ Desktop Processors
	PCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC Note2/UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: 1 PCIe x16 (PCIe4.0 x8) SLOT4: 1 PCIe x8 (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: 1 AMD B550 (4 SATA 7-pin, 1 M.2), 1 ASM1061 (2 SATA 7-pin)
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
	OCP	1 OCP 2.0 connector A (PCIe3.0 x8)
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type A 5 USB3.2 Gen1 ports : 2 rear Type A, 2 via 19-pin header, 1 via vertical Type A 2 USB 2.0 ports : 2 via 9-pin header
	Video	1 DB15(VGA), 1 HDMI Note3

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 supported by AMD Ryzen™ with Radeon™ Graphics Processors

AMD RYZEN

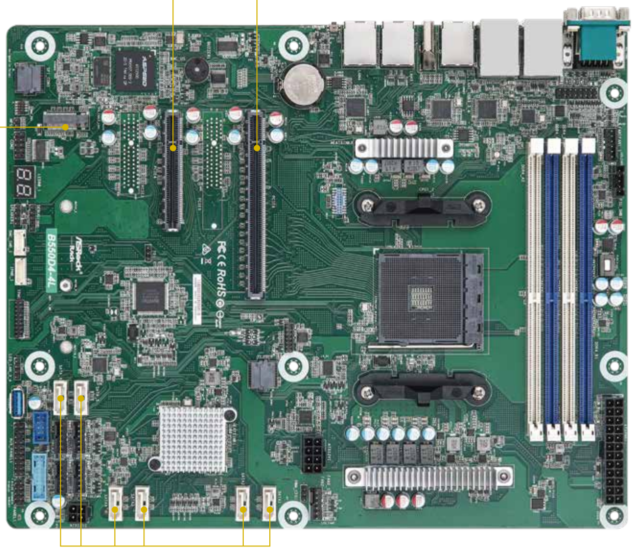
B550D4-4L

3200 PCI-E 4.0 ECC Memory

SLOT6: 1 PCIe x16 (PCIe4.0 x16)

SLOT4:
1 PCIe x8 (PCIe4.0 x4)

1 M.2
(PCIe3.0 x4 or
SATA 6Gb/s)



6 SATA 6Gb/s

COM IPMI 1 RJ45 (1GbE)

VGA USB3.2 Gen1 USB3.2 Gen2 1 RJ45 (1GbE) HDMI 2RJ45 (1GbE)

Application

- SMB Entry Server
- Entery Firewall/ Network appliance
- General Purpose Server

		B550D4-4L
Form Factor		ATX (12" x 9.6")
Processor System	CPU	AM4 PGA 1331; Supports: AMD Ryzen™ 5000 Series Desktop Processors AMD Ryzen™ 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ PRO 4000 and 3000 Series Note1 Desktop Processors 3rd Gen AMD Ryzen™ Desktop Processors
	PCH	AMD B550
Memory	Capacity	4 DDR4 DIMM Slots (2DPC); Supports: ECC Note2 /UDIMMs up to 32GB each; max. 3200MHz
Expansion	PCIe slot	SLOT6: 1 PCIe x16 (PCIe4.0 x16) SLOT4: 1 PCIe x8 (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: 1 AMD B550 (4 SATA 7-pin, 1 M.2), 1 ASM1061 (2 SATA 7-pin)
Network	RJ45	4 RJ45 (1GbE) by Intel® i210
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 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

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 supported by AMD Ryzen™ with Radeon™ Graphics Processors

EPYC3251D4I-2T

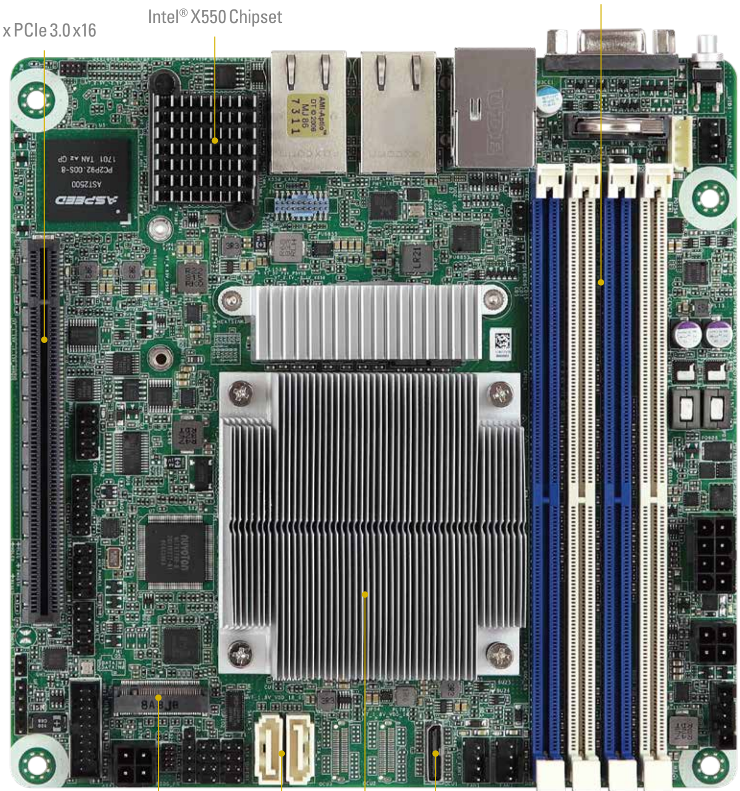
EPYC3101D4I-2T

DDR4 2666

2666

10G

10Gbase-T

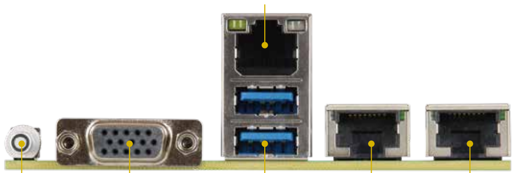


Application

- Network Function Virtualization
- Mid-range Networked Storage Appliances for NAS and SAN
- Edge Computing Devices

SKU Option

	EPYC3251D4I-2T	EPYC3101D4I-2T
SoC	AMD EPYC3251	AMD EPYC3101



		EPYC3251D4I-2T	EPYC3101D4I-2T
Form Factor		Mini-ITX (6.7" x 6.7")	
Processor Support		AMD EPYC™ 3251 (8 cores, 16 threads)	AMD EPYC™ 3101 (4 cores)
Socket		SoC	
Memory		4 DIMM Slots, DDR4 2666/2400/2133/1866 ECC UDIMM, RDIMM	
Storage	SATA Controller	2 x SATA3 6.0 Gb/s(1 x SATA3 6.0 Gb/s from SATA 7-pin, 1 x SATA3 6.0 Gb/s from M.2 M-key), up to 12 x SATA3 6.0 Gb/s from 3 x OCulink (EPYC3251/EPYC3201/EPYC3151/EPYC3101 support 1 x OCuLink only	
M.2		1(M-Key,2280/22110, Support PCIe 3.-0(x4) or SATA3 6.0Gb/s)	
Expansion Slots		1 x PCIe 3.0 x 16	
Ethernet	LAN Controller	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	
USB 3.2 Gen 1		2(from Rear I/O)	

AMD EPYC EMBEDDED

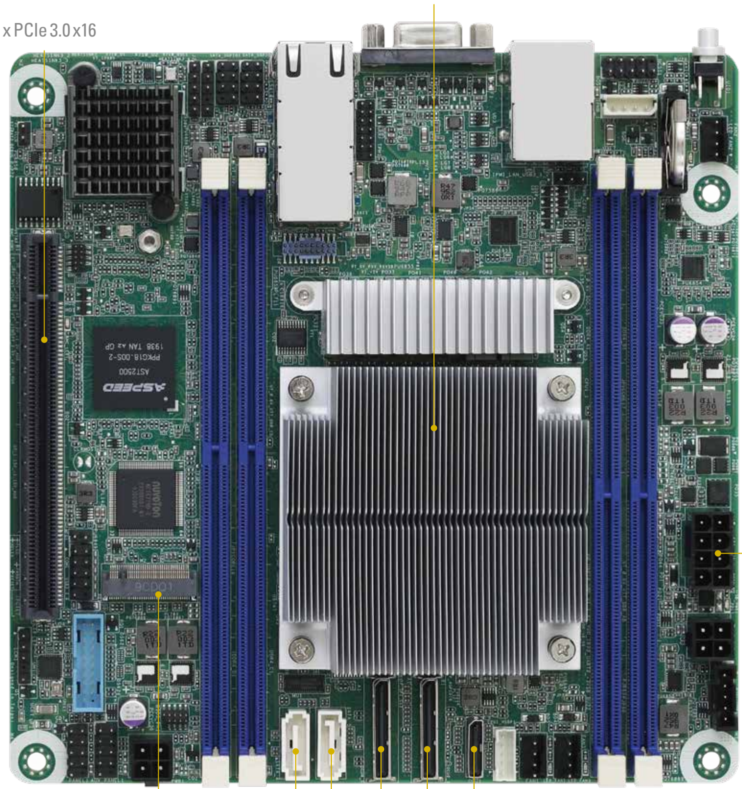
EPYC3451D4I2-2T

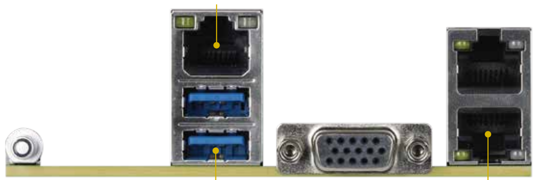
2666

10Gbase-T

Application

- Network Function Virtualization
- Mid-range Networked Storage Appliances for NAS and SAN
- Edge Computing Devices
- CDN



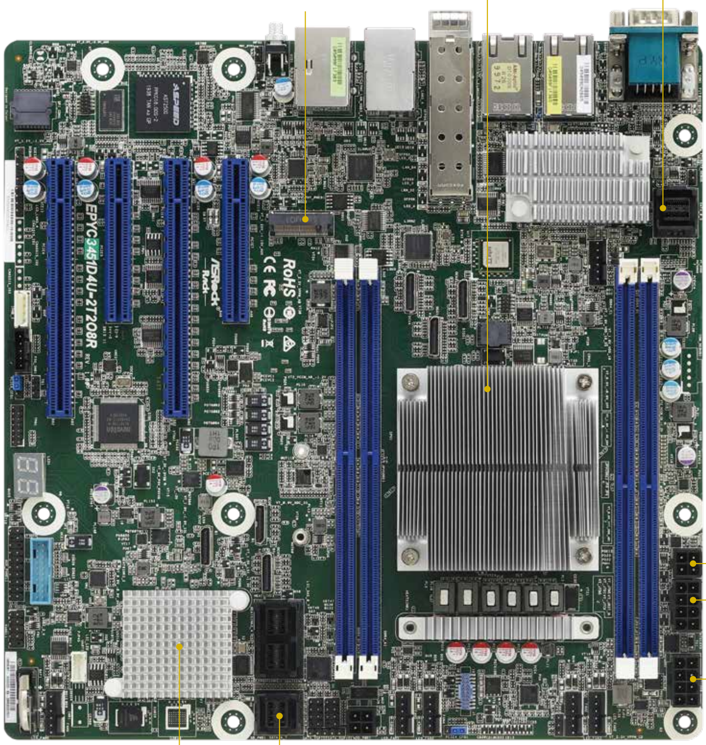


		EPYC3451D4I2-2T
Form Factor		Mini-ITX (6.7" x 6.7")
Processor System	CPU	AMD EPYC™ 3451 Processor
	PCH	System on chip
Memory	Capacity	4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM/LRDIMM up to 2666MHz, 32GB
Expansion	PCIe slot	1 PCIe3.0 x16
	Others	1 OCulink (PCIe3.0 x8 or 8 SATA 6Gb/s), 1 OCulink (PCIe3.0 x8), 1 Oculink (PCIe3.0 x4 or 4 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	2 SATA 7-pin*, 12 from Oculink connectors
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via header

• one SATA port shared with M.2 SATA interface

AMD EPYC EMBEDDED

EPYC3451D4U-2T2O8R



DDR4 2666

2666

Micro ATX

Micro ATX

SAS3 12Gb/s LSI

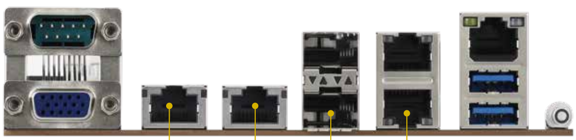
SAS3 12Gb/s

10G

10Gbase-T

Application

- Network Function Virtualization
- Mid-range Networked Storage Appliances for NAS and SAN
- Edge Computing Devices
- CDN



		EPYC3451D4U-2T2O8R
Form Factor		micro ATX (9.6'' x 9.6'')
Processor System	CPU	AMD EPYC™ 3451 Processor
	PCH	System on chip
Memory	Capacity	4 DIMM slots (1DPC); supports DDR4 ECC UDIMM/RDIMM up to 2666MHz, 64GB/ LRDIMM up to 2666MHz, 128GB
Expansion	PCIe slot	1 PCIe3.0 x16, 3 PCIe3.0 x8***
	Others	2 OCulink (PCIe3.0 x4 or 4 SATA 6Gb/s), 4 OCulink (PCIe3.0 x4)**
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor
	SATA port	4 via mini-SAS HD*, 8 from Oculink connecotrs
	SAS port	8 via mini-SAS HD by SAS3008
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (GbE) by Intel® i210
	SFP+	2 SFP+ (10GbE) by CS4227
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header

* mini-SAS HD shared with SLOT4
** OCulink (PCIe3.0x4 or 4 SATA 6Gb/s) shared with SLOT4, 1 OCulink (PCIe3.0x4 or 4 SATA 6Gb/s) shared with M.2[BTO], 4 OCulink (PCIe3.0 x4) shared with SLOT5 and SLOT7 [BTO]
*** 2 PCIe3.0 x16, 2 PCIe3.0 x8 when SAS3008 disabled

AMD EPYC 3000

AMD EPYC

ROME2D32LM3

EPYC Series

4094

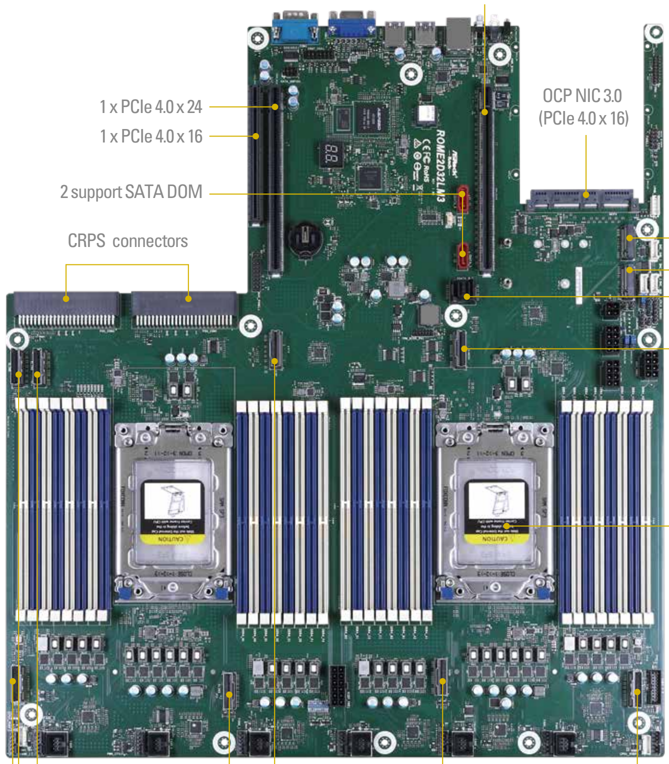
DDR4 3200

3200

OCP NIC 3.0

OCP NIC 3.0

AMD EPYC 7000



Application

- HCI
- I/O Virtualization
- Mission Critical

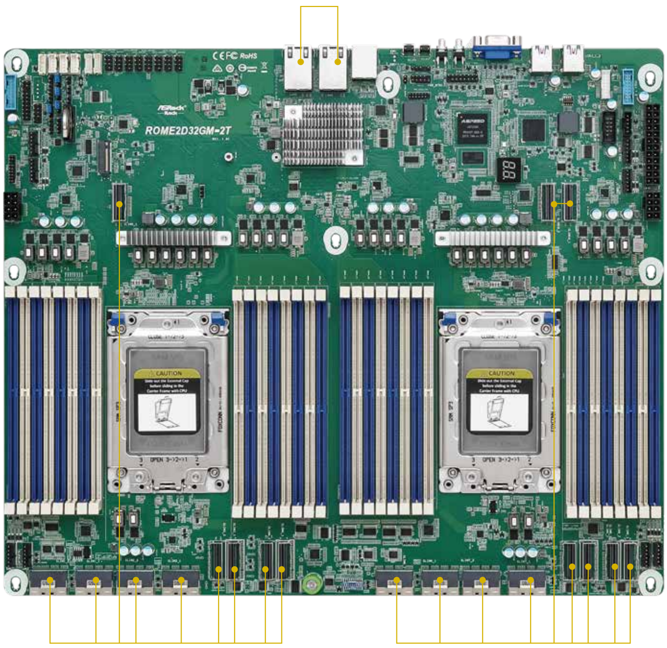
		ROME2D32LM3
Form Factor		Proprietary (18.8607" x 17.0149")
Processor System	CPU	1+1 Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	2 PCIe 4.0 x24, 1 PCIe 4.0 x16
	OCP	1 OCP NIC 3.0 (PCIe 4.0 x16)
	Others	1 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 7 Slimline (PCIe 4.0 x8)
Storage	M.2	1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/2242 form factor
		1 M-key (PCIe 3.0 x2), supports 2280/2260/2242/2230 form factor
	SATA port	2 SATA 7-pin suppport SATA DOM, 4 via mini-SAS HD
Network	RJ45	-
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

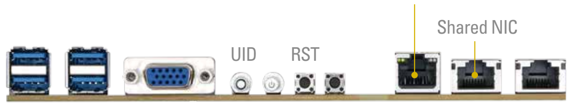
ROME2D32GM-2T

EPYC Series	DDR4 3200	10G
4094	3200	10Gbase-T

Application

- All Flash NVMe Storage Server
- GPGPU Computing
- High-end Network Appliance





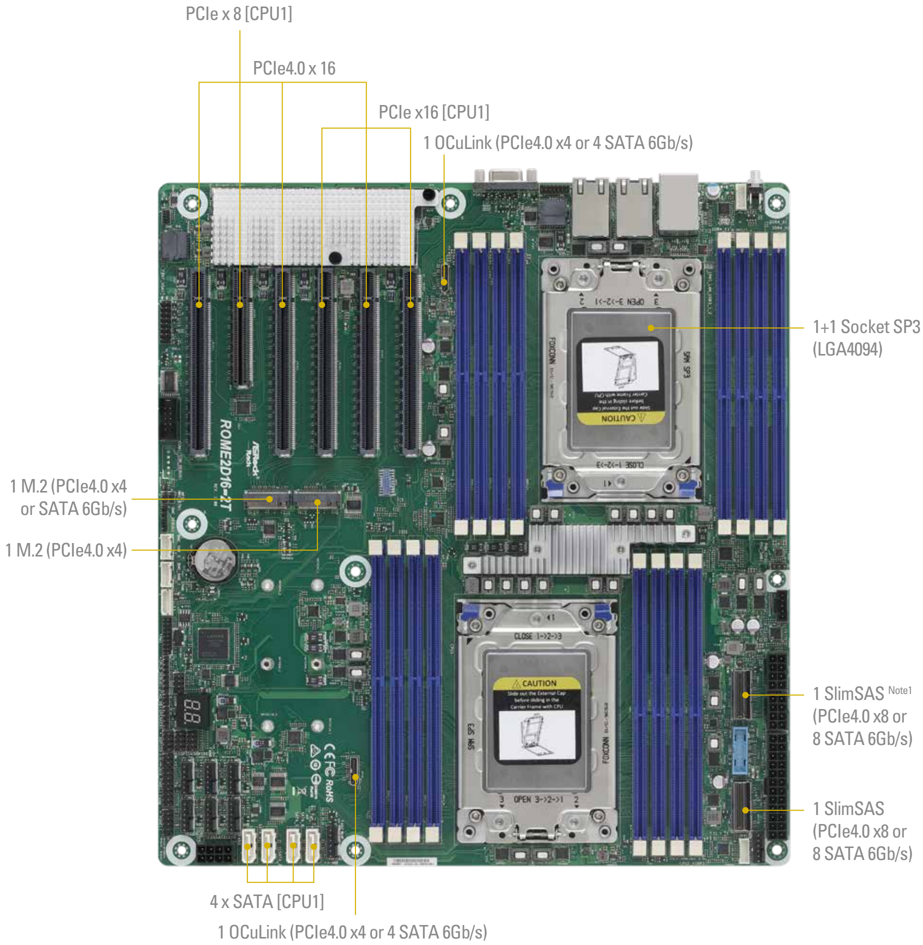
		ROME2D32GM-2T
Form Factor		Proprietary (16.53" x 14.56")
Processor System	CPU	Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	Others	4 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 15 Slimline (PCIe 4.0 x8)
Storage	M.2	1 M-key (PCIe 4.0 x4), supports 22110/2280 form factor
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	8 USB3.2 Gen 1 Ports: 4 rear Type A, 4 via 19-pin headers

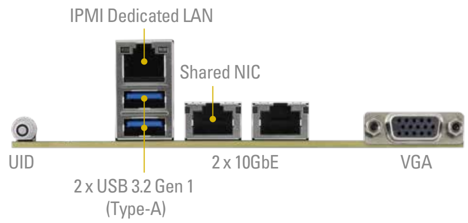
ROME2D16-2T

EPYC Series 4094

DDR4 3200 3200

10G 10Gbase-T





Application

- Mainstream server for SMB
- High-end workstation/ industrial application
- Tier2/3 CSPs
- Security appliances

		ROME2D16-2T
Form Factor		EEB (12'' x 13'')
Processor System	CPU	Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	8+8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	3 PCIe4.0 x16 [CPU0], 2 PCIe4.0 x16, 1 PCIe4.0 x8 [CPU1]
	Others	2 Oculink (PCIe4.0 x4 or 4 SATA 6Gb/s) [CPU0,CPU1]
		1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]*, 1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [CPU0]
		1 M-key (PCIe4.0 x4), supports 22110/2280/2242 form factor [CPU0]
	SATA port	4 SATA 7-pin, 8 from Slimline connector, 8 from Ocuink connectors
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 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

* Slimline from CPU0 support PCIe only while installing 2 processors

AMD EPYC

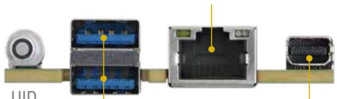
ROME2D16HM3

4094 | 3200 | OCP NIC 3.0

AMD EPYC 7000

Application

- Multi-node server
- HPC
- HCI
- Telco
- MEC



		ROME2D16HM3
Form Factor		Half-width, 6.6"* 20"
Processor System	CPU	Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	8+8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	2 high density PCIe4.0 x24 [CPU0]
	OCP	1 OCP NIC 3.0 [CPU0]
	Others	6 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU1]
		1 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s) [CPU0]
Storage	M.2	2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280 and 2280/2260 formfactor [CPU0]
	SATA port	2 SATA 7-pin*, 8 from Slimline connector [CPU0]
		16 from Slimline connectors [CPU1]
Network	RJ45	-
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 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

*Enabled when M.2_1 populated with SATA device

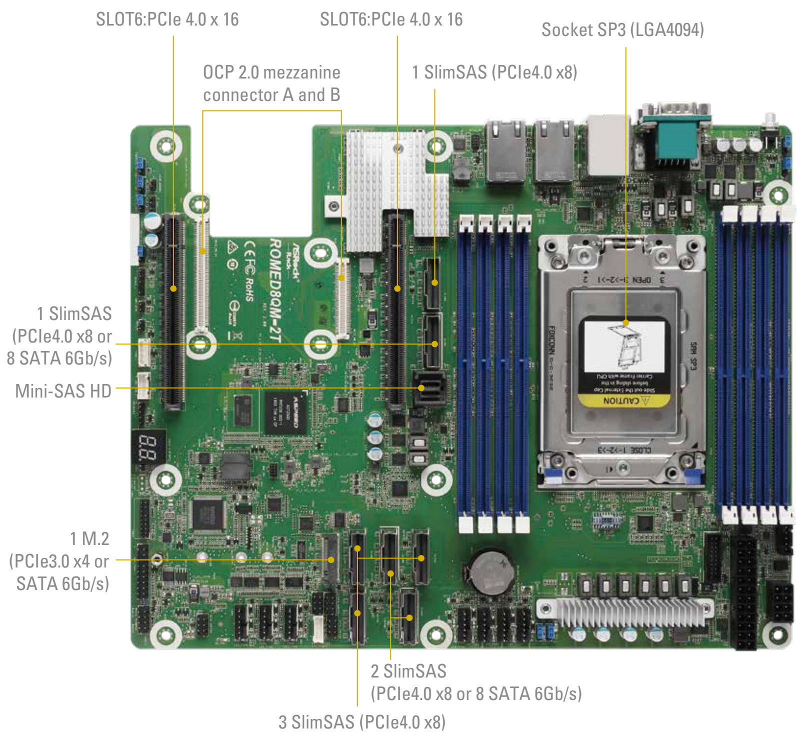
ROMED8QM-2T

EPYC Series — 4094

DDR4 3200 — 3200

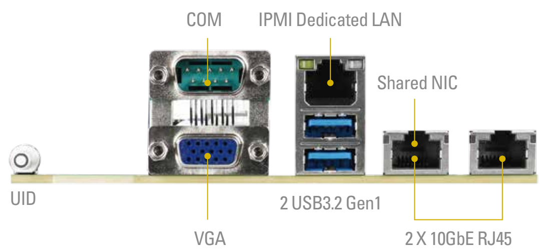
10G — 10Gbase-T

PCI-E 4.0 — PCI-E 4.0



Application

- NVMe Storage Server
- Web Hosting
- General Purpose Server



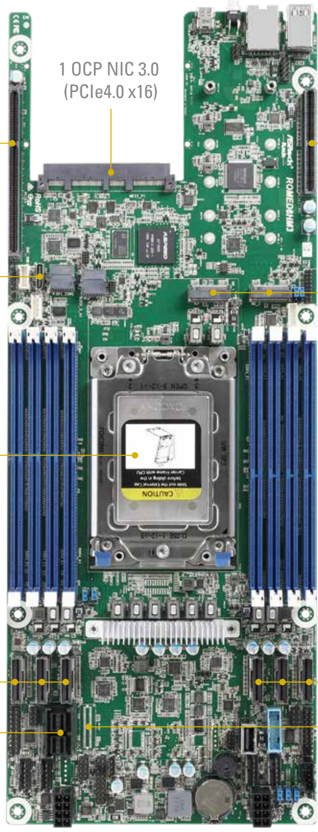
		ROMED8QM-2T
Form Factor		ATX (12" x 9.6")
Processor System	CPU	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	2 PCIe 4.0 x16
	OCP	1 OCP 2.0 mezzanine connector A and B (PCIe x16)
	Others	3 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 4 Slimline (PCIe 4.0 x8)
Storage	M.2	1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/2242 form factor
	SATA port	4 via mini-SAS HD
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

ROMED8HM3

EPYC Series
4094

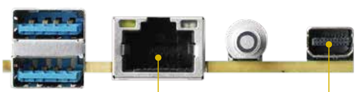
DDR4 3200
3200

PCI-E 4.0
PCI-E 4.0



Application

- Edge Server
- Multi-node Server



		ROMED8HM3
Form Factor		Half-Width (6.5" x 17")
Processor System	CPU	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	1 high density PCIe 4.0 x24, 1 high-density PCIe 4.0 x16
	OCP	1 OCP NIC 3.0
	Others	1 OCuLink (PCIe4.0 x4), 1 SlimSAS Note1 (PCIe4.0 x8 or 8 SATA 6Gb/s) , 6 SlimSAS (PCIe4.0 x8)
Storage	M.2	2 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor
	SATA port	8 via Mini-SAS HD Note1
Network	RJ45	-
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 ports: 2 rear Type A, 2 via 19-pin header, 1 USB2.0 port: 1 via vertical Type A

Note1: SlimSAS7 (BTO) share lanes with Mini-SAS HD

AMD EPYC

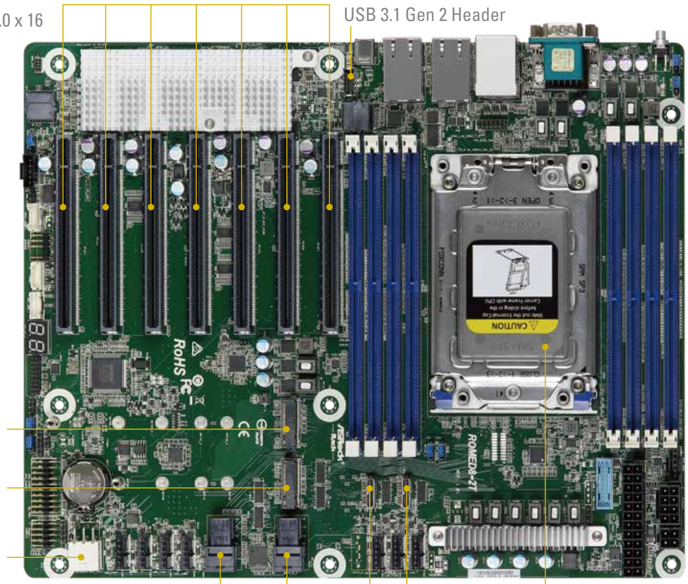
ROMED8-2T

EPYC Series
4094

DDR4 3200
3200

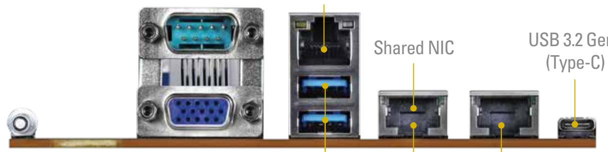
10G
10Gbase-T

PCI-E 4.0
PCI-E 4.0



Application

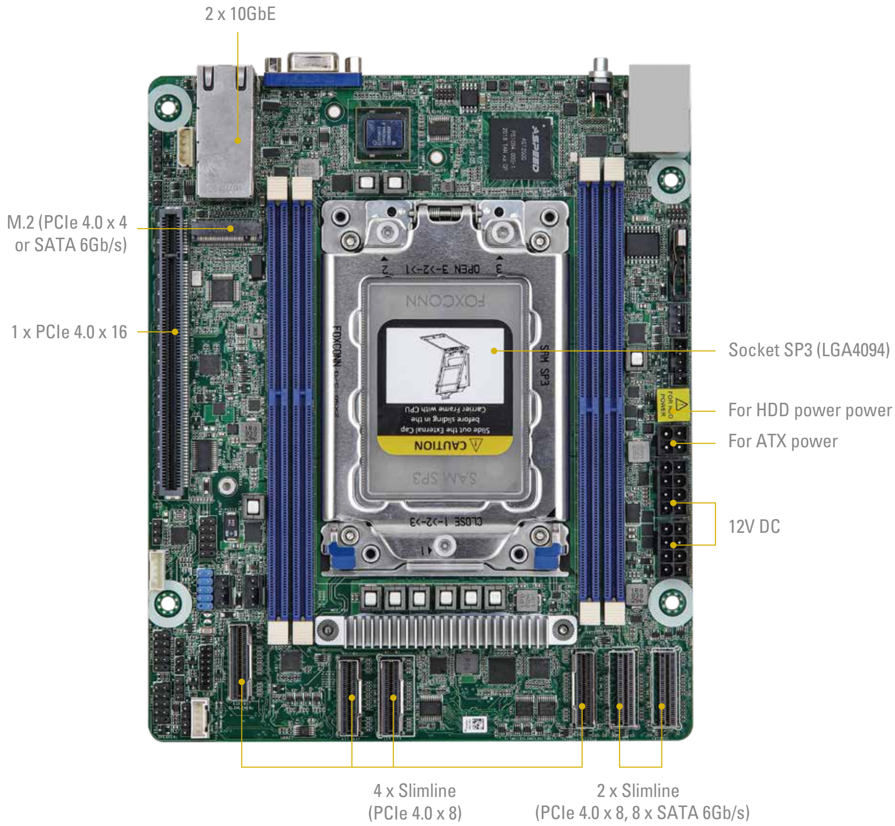
- Mainstream Server/ Workstation
- Web Hosting



		ROMED8-2T
Form Factor		ATX (12" x 9.6")
Processor System	CPU	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	7 PCIe 4.0 x16*
	Others	2 OCulink (PCIe 4.0 x4)*
Storage	M.2	1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor
		1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor
	SATA port	8 via mini-SAS HD*
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB 3.2 Gen 2 Ports: 1 rear Type C, 1 Type C header
		4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

ROMED4ID-2T

AMD EPYC Series	DDR4 3200	10G
4094	3200	10Gbase-T



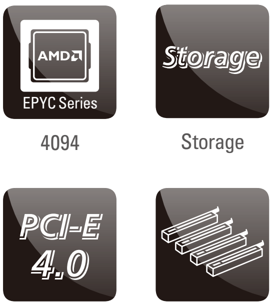
Application

- Edge Server
- Multi-node server

		ROMED4ID-2T
Form Factor		Proprietary (6.7"*8.2")
Processor System	CPU	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	4DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion	PCIe slot	1 PCIe4.0 x16
	Others	4 Slimline (PCIe4.0 x8), 2 Slimline (PCIe4.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor
	SATA port	16 from Slimline connectors
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	2 USB3.2 Gen1 ports: 2 rear Type A, USB2.0 ports: 2 via 9-pin header

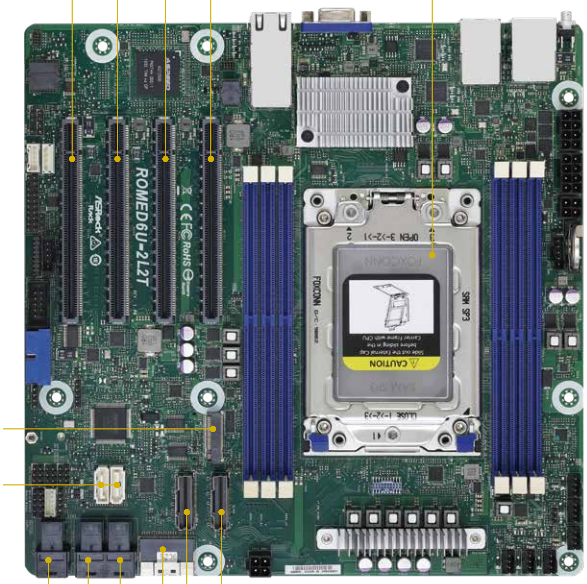
AMD EPYC

ROMED6U-2L2T



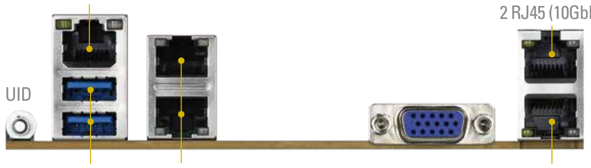
4094 Storage

PCI-E 4.0 True 4 PCIEx16 slot



Application

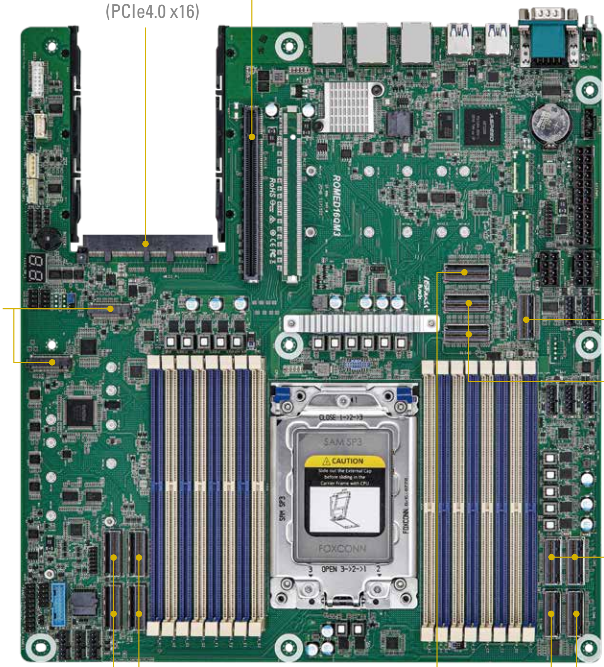
- Storage Server
- Enterprise NAS
- Compact GPU tower



		ROMED6U-2L2T
Form Factor		μ-ATX (9.6'' x 9.6'')
Processor System	CPU	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	6 DIMM Slots, supports DDR4 R-DIMM/LR-DIMM
Expansion	PCIe slot	4 PCIe 4.0 x16
	Others	2 Slimline (PCIe 4.0 x8 or 8 SATA 6Gb/s), 1 Slimline (PCIe 4.0 x8)
Storage	M.2	1 M-key (PCIe 4.0 x4 or SATA 6Gb/s), supports 2280 form factor
		1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2260 form factor [BTO]
	SATA port	2 SATA 7-pin, 12 via mini-SAS HD
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2, 2 RJ45 (1GbE) by Intel i210
Management	BMC	ASPEED AST2500 : IPMI (Intelligent Platform Management Interface) 2.0
	Dedicated IPMI	1 RJ45 via Realtek RTL8211E
I/O	USB	4 USB 3.2 Gen 1 Ports: 2 rear Type A, 2 via 19-pin header

ROMED16QM3

3200 PCI-E 4.0 OCP NIC 3.0



Application

- CSP
- All-flash storage server

		ROMED16QM3
Form Factor		EEB (12" x 13")
Processor System	CPU	Single Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
	PCH	System on chip
Memory	Capacity	16 DDR4 288-pin DIMM Slots (2DPC); Supports: RDIMM up to 64GB each, max. 3200MHz LRDIMM up to 128GB each, max. 3200MHz RDIMM/LRDIMM-3DS up to 256GB each, max 3200MHz NVDIMM up to 32GB each, max. 2666MHz
Expansion	PCIe slot	1 PCIe x16 (PCIe4.0 x8) Note1
	Others	10 SlimSAS (PCIe4.0 x8) 2 SlimSAS (PCIe4.0 x8 or 8 SATA 6Gb/s)
Storage	M.2	2 M-key (PCIe4.0 x4 or 4 SATA 6Gb/s), supports 22110/2280/2260/2242/2230 form factor
	SATA port	24 SATA 6Gb/s: 2 SlimSAS, 2 M.2
Network	RJ45	2 RJ45 (1GbE) by Intel® I350-AM2
	OCP NIC	1 OCP NIC 3.0 (PCIe4.0 x16)
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
	COM port	1 rear DB9
Security	TPM	Supports 17-pin (LPC) or 13-pin (SPI) TPM modules

Note1: PCIe4.0 x16 support is BTO.
(SLOT6 share lanes with M2_1 and M2_2, SLOT6 PCIe4.0 x16 support possible by depopulating 2 M.2 and other BOM change)

AMD EPYC

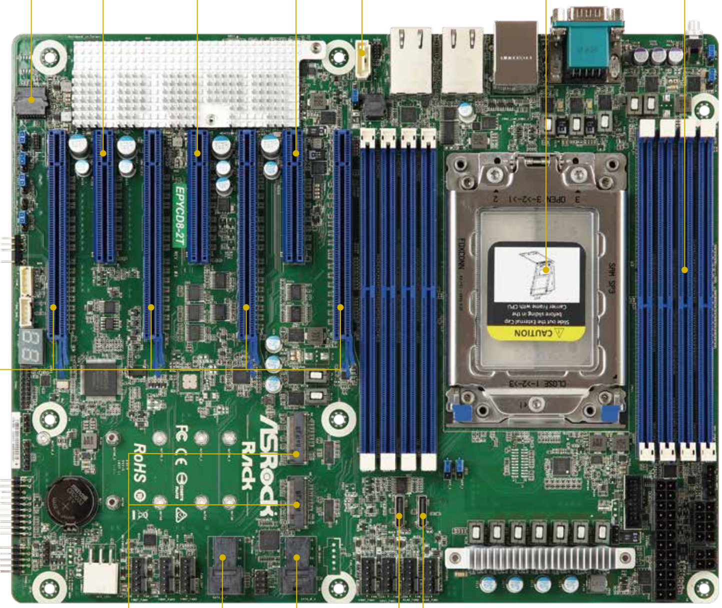
EPYCD8-2T

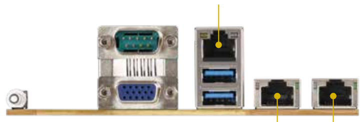
EPYCD8

EPYC eries
4094

10G
10Gbase-T

DDR4 2666
2666





Application

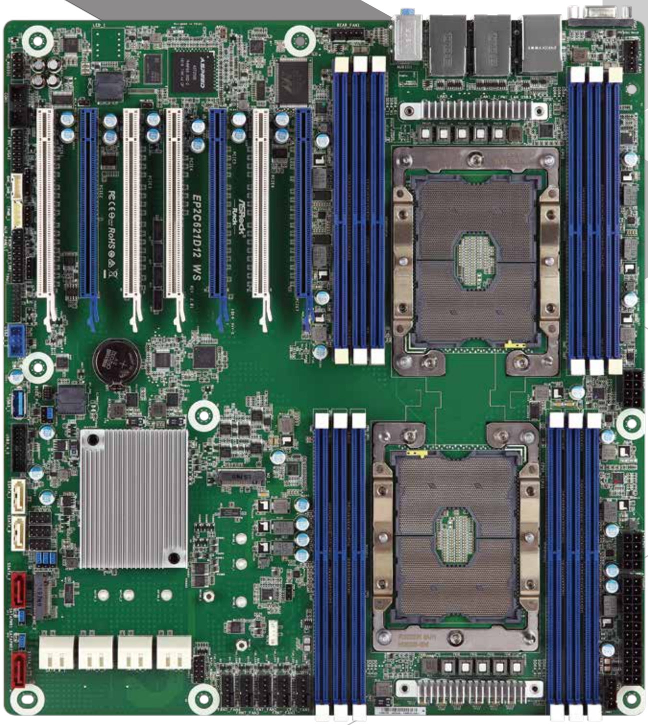
- Cloud and Virtualization Applications
- Database Processing & Storage
- High End Enterprise Server

SKU Option

	EPCYD8	EPCYD8-2T
LAN Controller	Intel® i350	Intel® X550

		EPYCD8	EPYCD8-2T
Form Factor		ATX(12''x9.6'')	
Processor Support		Single Socket SP3 (LGA4094), Supports AMD EPYC™ 7000 series processor family	
Chipset		N/A	
Memory		Eight Channels, 8 DIMMs, DDR4 2666/2400 RDIMM, and LRDIMM	
Storage	SATA controller	9 x SATA3 6.0 Gb/s (from 2x mini SAS HD), 1 SATA DOM	
Expansion Slots		4x PCIE3.0x16, 3x PCIE3.0x8	
Ethernet	LAN Controller	Intel® i350	Intel® X550
	LAN Port	RJ45:2+1(IPMI)	RJ45:2(10G)+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for dedicated management LAN	
USB 3.0		3(2from rear I/O, 1 via header)	
M.2		2(M2_1: 2230/2242/2260/2280, SATA/PCIE(X4); M2_2:2230/2242/2260/2280/22110, SATA/PCIE(X4))	

Workstation
Motherboards

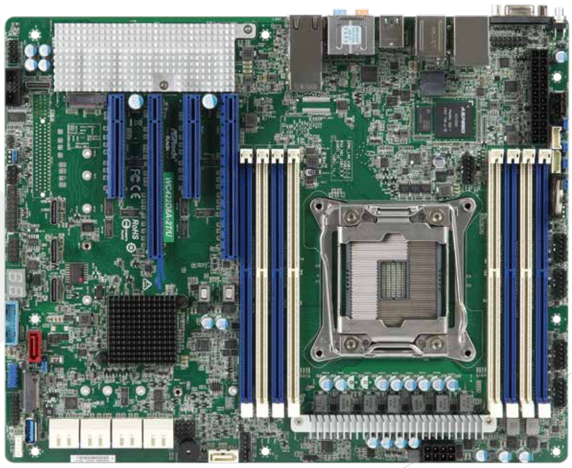


EP2C621D12 WS

Extreme High Performance HFT Optimized
Workstation Board

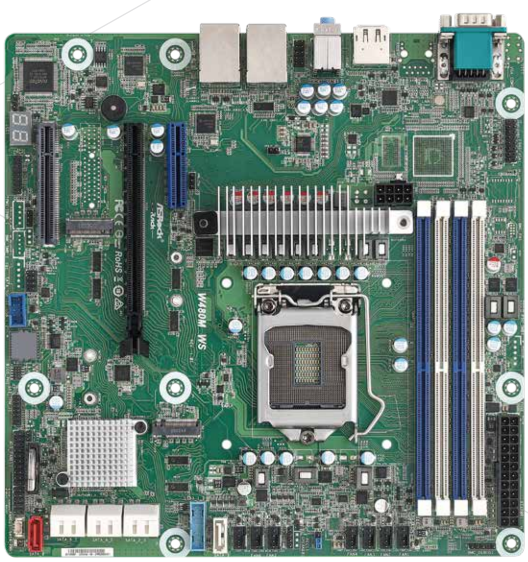
WC422D8A-2T/U

ATX Single-socket Workstation Board with Dual Intel 10G LAN



W480M WS

Entry Workstation Board with Multiple Video Output

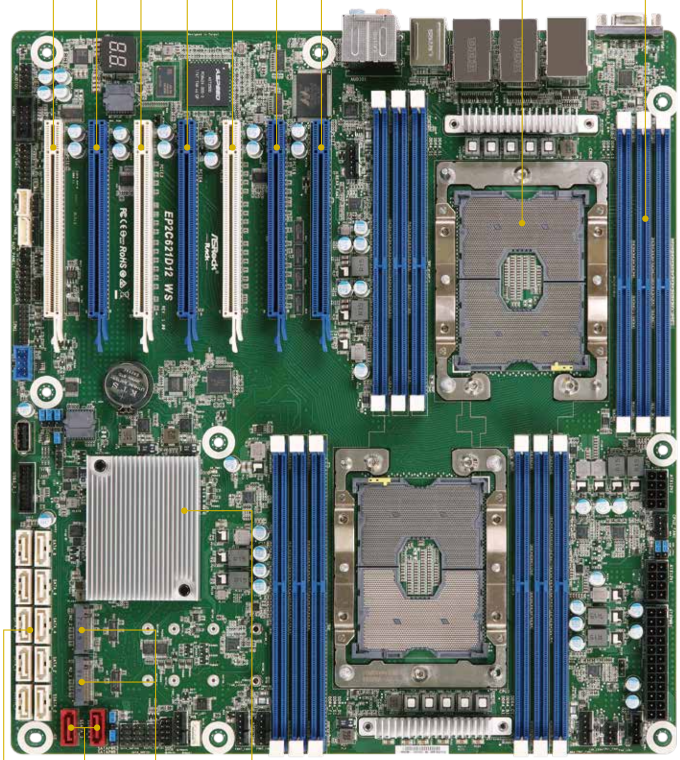


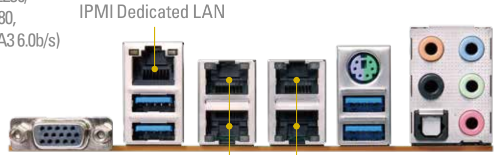
EP2C621D12 WS

DDR4 2666 — 2666

Xeon Scalable — 3647

Workstation — Workstation





Application

- Data Center Servers
- Enterprise IT
- Cloud
- HPC
- Hadoop / Big Data

		EP2C621D12 WS
Form Factor		EEB(12"x13")
Processor Support		Dual Socket P LGA 3647 support Intel® Xeon® Scalable Processors
Chipset		Intel® C621
Memory		Six Channel, 12 DIMMs, DDR4 2666/2400/2133 RDIMM and LR DIMM
Storage	Intel PCH	Intel® C621 : 14 x SATA3 (including 2 SATA DOM ports and 2 M.2 ports)
Expansion Slots		7 x PCIe 3.0 x16
Ethernet	LAN Controller	Marvell 88E1543
	LAN Port	RJ45:4+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support
	IPMI dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		6(4 from rear I/O, 2 via header)
M.2		2 x slot (Switch with 2x SATA, M key up to 2280), support PCIE(X4) or SATA
SATA DOM		2(Switch with 2x SATA)

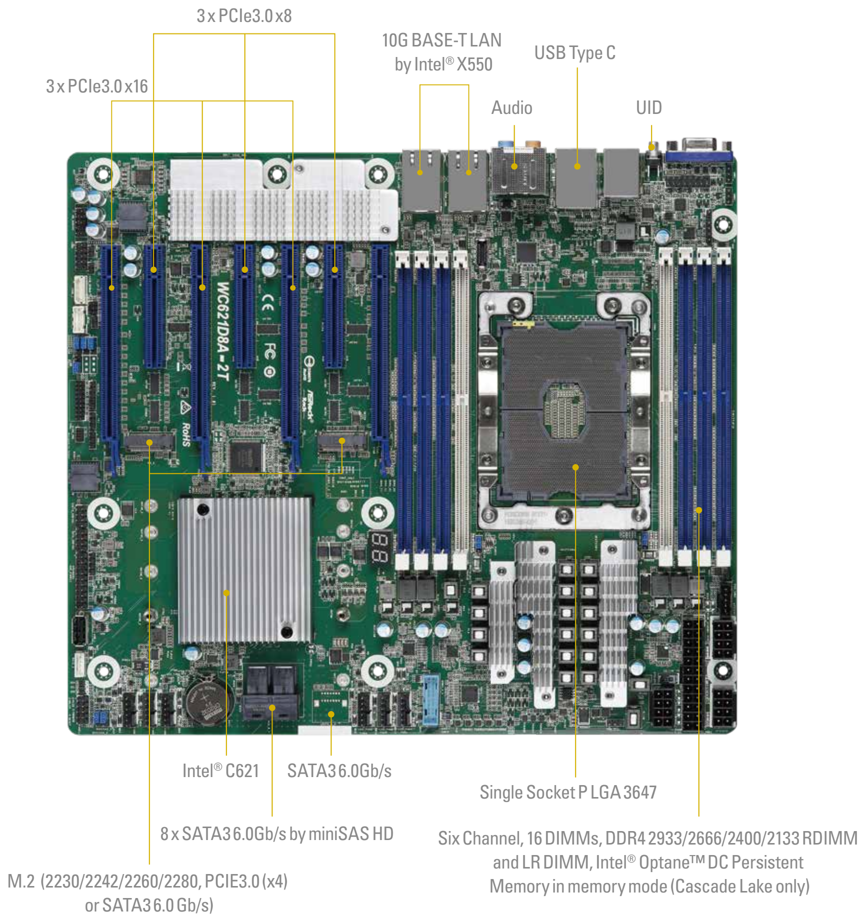
WC621D8A-2T

DDR4 2933

2933

Xeon Scalable

3647



Intel® Xeon W-3200

Application

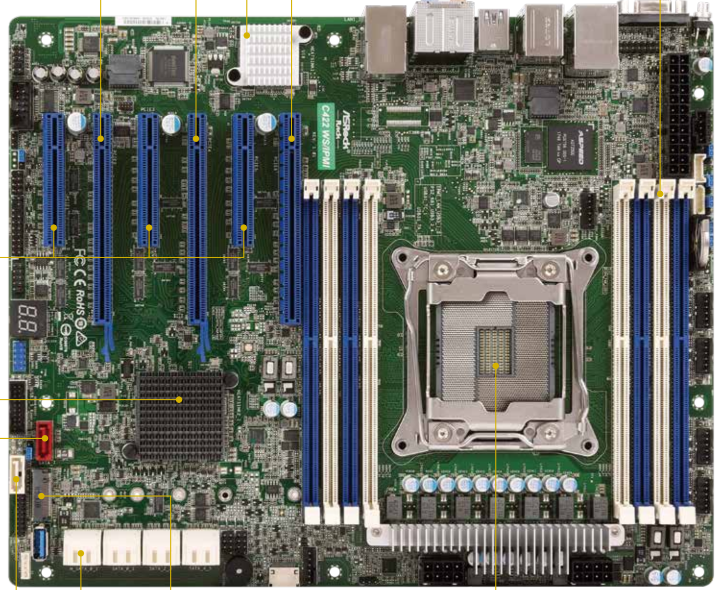
- High Performance Workstations
- Modular Rendering Machine
- 3D Rendering/Drafting

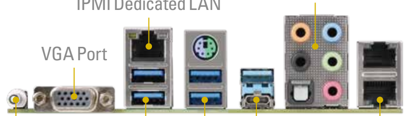
		WC621D8A-2T
Form Factor		CEB(12"x10.5")
Processor Support		Single Socket P LGA 3647 Supports Intel® Xeon® W-3200 Processors
Chipset		Intel® C621
Memory Capacity		Six Channel, 16 DIMMs, DDR4 2933/2666/2400/2133 RDIMM and LR DIMM, Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Storage Capacity	Intel PCH	Intel® C621: 12 x SATA3 (8 ports from 2x MiniSAS-HD, 2 port by SATA Conn, 2 x M.2)
	Additional	N/A
Expansion Slots		3 x PCIe3.0 x16, 3 x PCIe3.0 x8
Ethernet	LAN Controller	Intel® X550-AT2
	LAN Port	RJ45:2+1(IPMI)
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support
	IPMI dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN
USB 3.0		5(3 from rear I/O, 2 via header)
USB 3.1(Gen2)		1(Type C, when SATA 7-pin available, support U3 Gen1 only)
USB 2.0		2(via header)
M.2		1 (2230/2242/2260/2280/22110, PCIe3.0(x4) or SATA3 6.0Gb/s) 1 (2230/2242/2260/2280/22110, SATA6.0Gb/s)

C422 WS/IPMI

X299 WS/IPMI

2666 Workstation





Application

- High Performance Workstations
- Designed for 2D/3D Graphic Content Creations

SKU Option

	C422 WS/IPMI	X299 WS/IPMI
Intel PCH	Intel C422	Intel X299
ASPEED	2500	2500

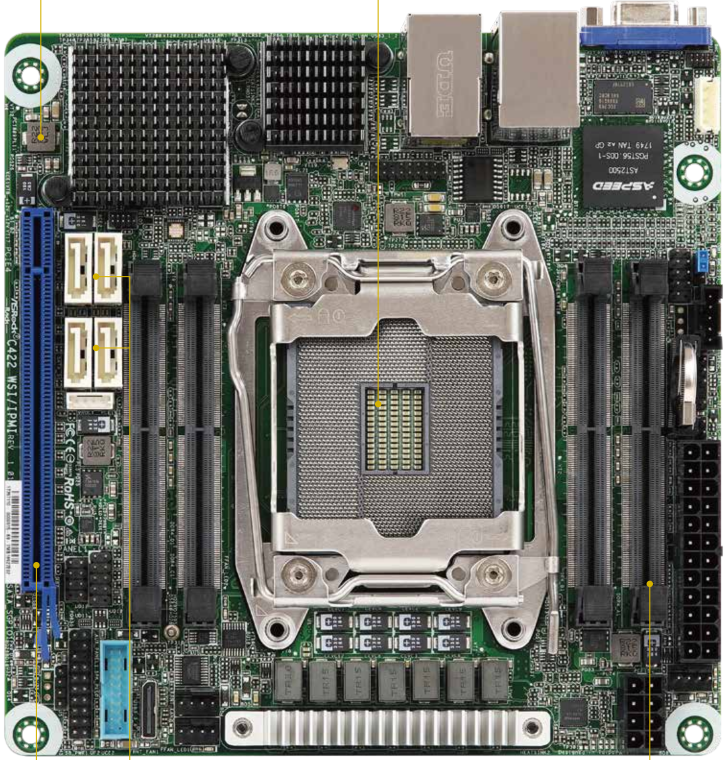
Inte® Xeon W-2200, Core i9

		C422 WS/IPMI	X299 WS/IPMI
Form Factor		ATX (12"x9.6")	
Processor Support		Single Socket R4 LGA 2066, Supports Intel® Skylake-W Processors	Single Socket R4 LGA 2066, Supports Intel® Core™ X-Series Processor Family
Chipset		Intel® C422	Intel® X299
Memory		four Channels, 8 DIMMs, DDR4 2666/2400/2133 RDIMM, LR DIMM	
Storage Capacity	Intel PCH	Intel® C422: 8x SATA3 6Gb/s (1x SATA3 share with SATA DOM or M.2)	Intel® X299: 8x SATA3 6Gb/s (1x SATA3 share with SATA DOM or M.2)
	Additional Storage	2x SATA3 6Gb/s from 88SE9172	
	OCuLink for U.2	1	
Expansion Slots		3 x PCIe 3.0 x16, 3 x PCIe 3.0 x8	
Ethernet	LAN Controller	Intel® i350	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB3.1(Gen 2)		2(1 type A, 1 type c) by Gen2,	
USB 3.0		7(4 from rear I/O, 2 via header, 1 from Type A) by Gen1	
USB 2.0		2(2 via header)	
M.2		1 x slot (up to 2230/2242/2260/2280/22110), support PCIE(X4) or SATA	
SATA DOM		1 (share with M.2 or 1x SATA3)	

C422 WSI/IPMI

X299 WSI/IPMI

2666 Workstation



Application

- Mini Workstation
- Modular Rendering Machine
- 3D Rendering / Drafting

SKU Option

	C422 WSI/IPMI	X299 WSI/IPMI
Intel PCH	Intel C422	Intel X299

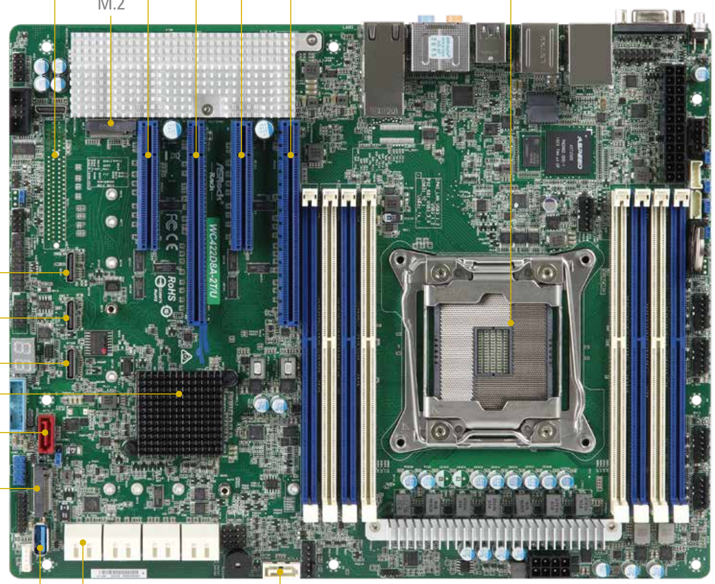
		C422 WSI/IPMI	X299 WSI/IPMI
Form Factor		Mini-ITX (6.7"x6.7")	
Processor Support		Single Socket R4 LGA 2066, Supports Intel® Skylake-W Processors	Single Socket R4 LGA 2066, Supports Intel® Core™ X-Series Processor Family
Chipset		Intel® C422	Intel® X299
Memory		Quad Channels, 4 DIMMs, DDR4 2666/2400 ECC SO DIMM	
Storage Capacity	Intel PCH	Intel® C422: 4x SATA3 6Gb/s	Intel® X299: 4x SATA3 6Gb/s
Expansion Slots		1x PCIe 3.0x16	
Ethernet	LAN Controller	Intel® i350	
	LAN Port	RJ45:2+1(IPMI)	
System management	BMC Controller	ASPEED 2500: IPMI (Intelligent Platform Management Interface) 2.0 with Ikvm, vMedia support	
	IPMI Dedicated LAN	1 x Realtek RTL8211E for dedicated management GLAN PIN	
USB 3.0		4(2 from rear I/O, 2 via header)	

WC422D8A-2T

WC422D8A-2T/U

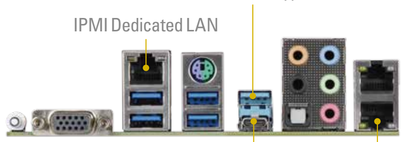
2666

10Gbase-T



Application

- Content Creation
- Digital Imaging
- Simulation and Creation Design



		WC422D8A-2T	WC422D8A-2T/U
Form Factor		ATX(12'' x 9.6'')	
Processor Support		Socket LGA2066, supports Intel® Xeon® W-2200 Processors, Intel® Xeon® W-2100 Processors	
Chipset		Intel® C422	
Memory		8 DIMM Slots, DDR4 2666/2400 R & LR DIMM (Max. 512 GB)	
Storage Capacity		8 x SATA3 6.0 Gb/s by Intel® C422 (including 1 x SATA DOM) 2 x SATA 6Gb/s by 88ES9172	
Expansion Slots		2 x PCIe 3.0 x16, 3 x PCIe 3.0 x8	2 x PCIe 3.0 x16, 2 x PCIe 3.0 x8
Ethernet	LAN Controller	1 x Intel® X550 (Support 2 x 10G Base-T)	
	LAN Port	RJ45:2+1(IPMI)	
USB 3.2 Gen2		Rear: 1 Type-A, 1 Type-C	
USB 3.2 Gen1		7(4 from Rear I/O, 2 via Header, 1 from TYPE A)	
USB 2.0		1(2 via Header)	
NVME support		2 OCuLink from CPU	4 OCuLink from CPU
M.2		2(M.2_1: support PCIEx4 or SATA3 6.0Gb/s, 2230/2242/2260/2280/22110, M.2_2: support PCIEx4, 2230/2242/2260/2280/22110)	

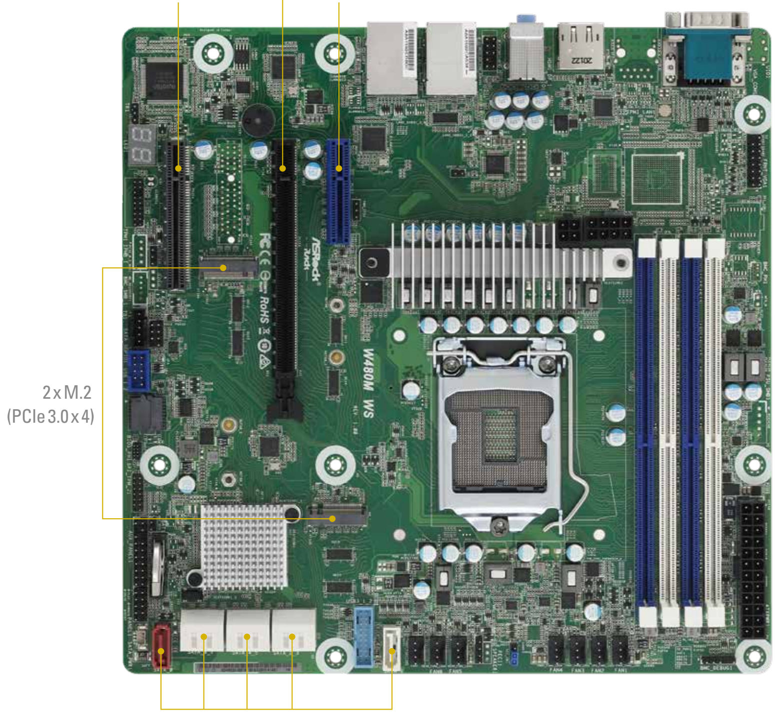
W480M WS

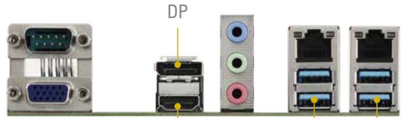
DDR4 2933

2933

Micro ATX

Micro ATX





Application

- VR Content development
- Mainstream creation

Intel® Xeon W-1200

		W480M WS
Form Factor		micro ATX (9.6'' x 9.6'')
Processor System	CPU	Socket LGA1200, supports Intel® Xeon® W-1200, Intel® 10th Gen Intel® Core™ Processors
	PCH	Intel® W480
Memory	Capacity	4 DIMM Slots (2DPC); Supports DDR4 ECC/ UDIMMs up to 2933MHz 32GB
Expansion	PCIe slot	1 PCIe3.0 x16, 1 PCIe3.0 x8, 1 PCIe3.0 x4
Storage	M.2	2 M-key (PCIe3.0 x4), supports 2280/2260 form factor
	SATA port	8 SATA 6Gb/s (1 support SATA DOM)
Network	RJ45	2 RJ45 (1GbE) by Intel® i210
I/O	USB	2 USB3.2 Gen2 ports: 2 rear Type A
		4 USB3.2 Gen1 ports: 2 rear Type A, 2 via header
		2 USB2.0 ports: 2 via header
	Video	1 DB15(VGA), 1 HDMI, 1 DP
	Audio	3 jack

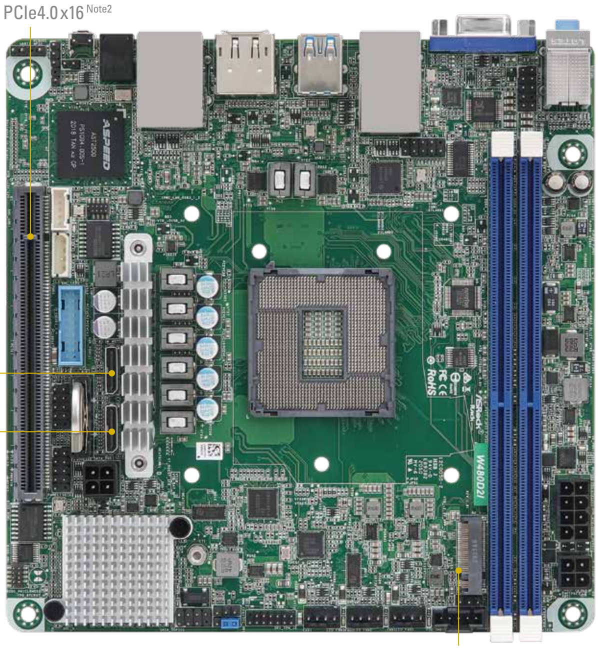
・Without integrated Intel® UHD graphics, the processor display output ports will not function

W480D2I

2933

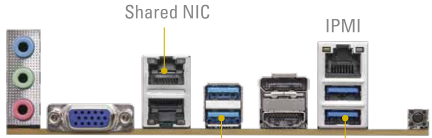
PCI-E 4.0

Oculink



Application

- Entry workstation
- SOHO NAS

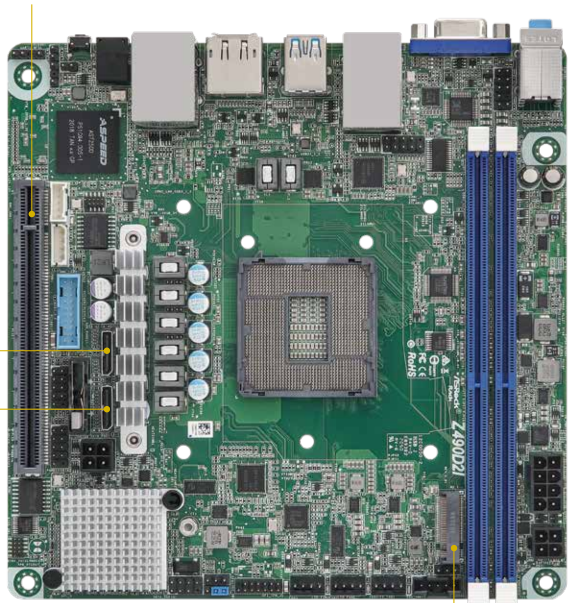


		W480D2I
Power source		Supports ATX PSU or 12V DC-in
Form Factor		m-ITX (6.7" x 6.7")
Processor System	CPU	1 Socket H5 (LGA1200); Supports Intel® Xeon® W-1200 Processors, 11th and 10th Gen. Intel® Core™ Processors
	PCH	Intel® W480
Memory	Capacity	2 DIMM Slots (1DPC); Supports DDR4
		ECC Note1 / non-ECC UDIMM up to 32GB each, max 2933MHz
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note2 [CPU]
	Others	2 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] Note3
Storage	M.2	1 M-key Note4 (PCIe4.0 x4), supports 2280 form factor [CPU]
	SATA port	8 SATA 6Gb/s: 2 OCuLink
Network	RJ45	1 RJ45 (1GbE) by Intel® i210
		1 RJ45 (1GbE) by Intel® i219-LM
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
		4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	COM port	9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: ECC support is only with Intel® Xeon® W Processors
Note2: Supports PCIe3.0 x16 when installing 10th Gen. Intel® Core™ Processors
Note3: OCU1 (SATA_1) will be disabled when M.2 is populated with SATA device
Note4: Supports PCIe3.0 x4 or SATA 6Gb/s [PCH] when installing 10th Gen. Intel® Core™ Processors

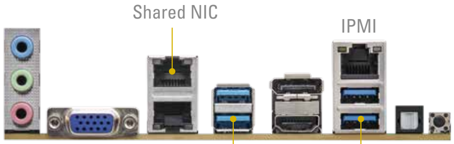
Z490D2I

2933 | PCI-E 4.0 | Oculink



Application

- Entry workstation
- SOHO NAS
- Cloud gaming



Intel® Xeon W-1200

		Z490D2I
Power source		Supports ATX PSU or 12V DC-in
Form Factor		m-ITX (6.7" x 6.7")
Processor System	CPU	1 Socket H5 (LGA1200); Supports 11th and 10th Gen. Intel® Core™ Processors
	PCH	Intel® Z490
Memory	Capacity	2 DIMM Slots (1DPC); Supports DDR4
		non-ECC UDIMM up to 32GB each, max. 2933MHz
Expansion	PCIe slot	SLOT7: PCIe4.0 x16 Note1 [CPU]
	Others	1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] Note2
		1 OCuLink (PCIe3.0 x4 or 2 SATA 6Gb/s) [PCH]
Storage	M.2	1 M-key Note3 (PCIe4.0 x4), supports 2280 form factor [CPU]
	SATA port	6 SATA 6Gb/s: 2 OCuLink
Network	RJ45	1 RJ45 (1GbE) by Intel® i210
		1 RJ45 (1GbE) by Intel® i219-LM
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
		4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header
	COM port	9-pin header
Security	TPM	Supports 13-pin (SPI) TPM modules

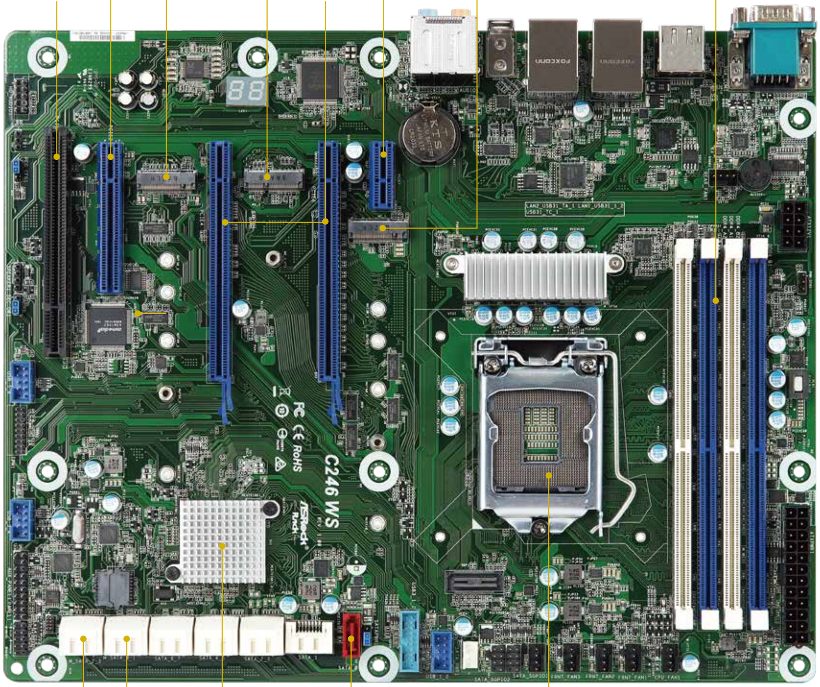
Note1: Supports PCIe3.0 x16 when installing 10th Gen. Intel® Core™ Processors
Note2: OCU1 (SATA_1) will be disabled when M.2 is populated with SATA device
Note3: Supports PCIe3.0 x4 or SATA 6Gb/s [PCH] when installing 10th Gen. Intel® Core™ Processors

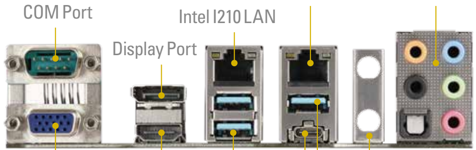
C246 WS

1151 | 2666 | Workstation | HDMI

Application

- Graphics Workstation
- Digital Imaging
- 3D Simulation and Rendering



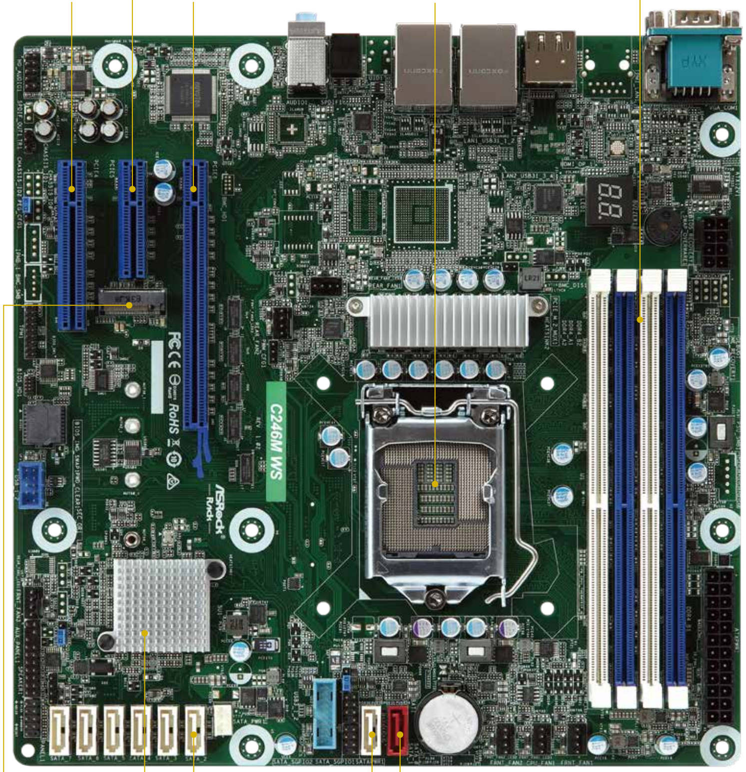


		C246 WS
Form Factor		ATX (12'' x 9.6'')
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Series Processors
Memory		4 DIMM Slots, DDR4 2666/2400 ECC U DIMM
Storage Capacity	Intel PCH	8 x SATA3 6Gb/s
	Additional	Marvell SE9172: 4 x SATA3 6Gb/s
Expansion Slots		2 x PCIe 3.0 x16, 1 x PCIe 3.0 x8, 1 x PCIe 3.0 x1, 1 x PCI x1
Ethernet	LAN Controller	1 x Intel® i210 + 1 x Intel® i219
	LAN Port	RJ45:2
USB 3.0		6 (3 Type A from Rear I/O, 1 Type C from Rear I/O, 2 via Header)
USB 2.0		6 (6 via Header)
M.2		1(2230/2242/2260/2280/22110, Supports PCIE3.0(X4)/SATA3) 1(2230/2242/2260/2280/22110, Supports PCIE3.0(X4)) 1(2230, WiFi/ BT antena(BTO))

C246M WS

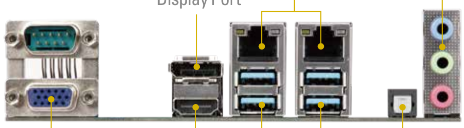
XEON 1151 | DDR4 2666 | Work-station | HDMI

1151 2666 Workstation HDMI



Application

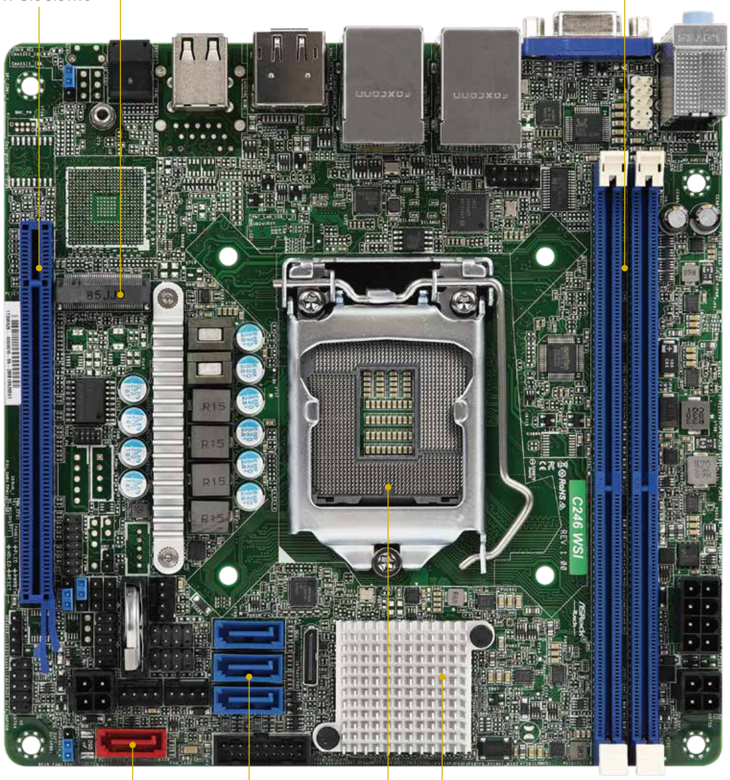
- Multitasking Entry Workstations
- CAD, Media and Content Creations
- Digital Imaging

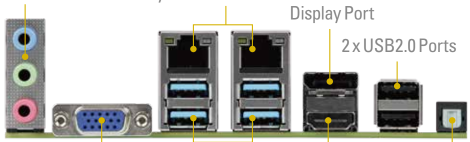


		C246M WS
Form Factor		Micro-ATX(9.6'' x 9.6'')
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Series Processors
Memory		4 DIMM Slots, DDR4 2666/2400 ECC/non-ECC U DIMM Max. 64 GB
Storage Capacity	Intel PCH	8 x SATA3 6.0 Gb/s by Intel® C246
	Additional	N/A
Expansion Slots		1 x PCIe 3.0 x16, 1 x PCIe 3.0 x8, 1 x PCIe 3.0 x4
Ethernet	LAN Controller	1 x Intel® i210 + 1 x Intel® i219
	LAN Port	RJ45:2
USB 3.0		6 (4 from Rear I/O, 2 via Header)
USB 2.0		2 (2 via Header)
M.2		1 (2230/2242/2260/2280), Supports PCIe3.0 (x4)/SATA3

C246 WSI

XEON 1151 | DDR4 2666 2666 | Workstation Workstation





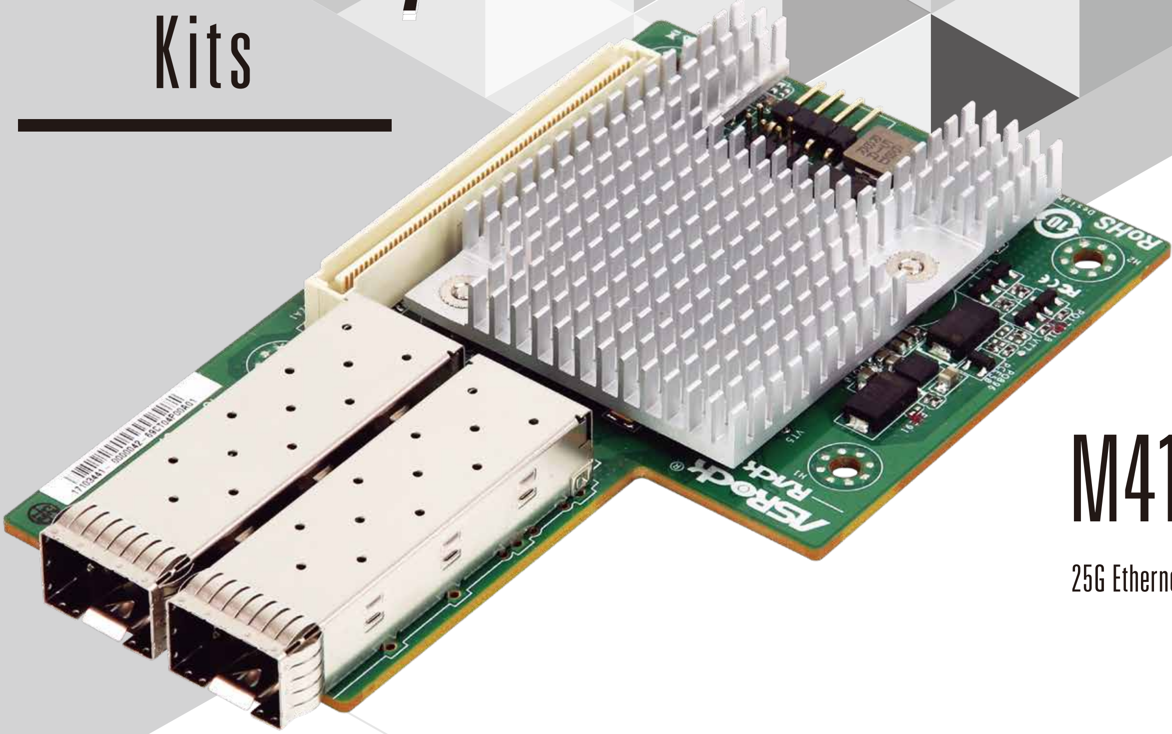
Application

- NAS System
- Mini Workstation
- Modular Rendering Machine

Intel® Xeon E-2200

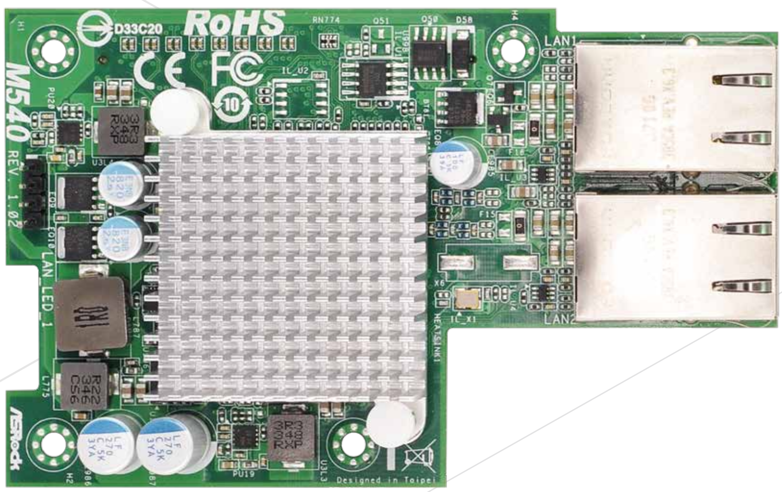
		C246 WSI
Form Factor		Mini-ITX (6.7'' x 6.7'')
Processor Support		Single Socket LGA1151 Intel® Xeon® E-2100 Series Processors
Memory		2 DIMM Slots, DDR4 2666/2400 ECC, U DIMM
Storage Capacity	Intel PCH	8 x SATA3 6.0 Gb/s by Intel® C246 (SATA 0-3 by OCuLink, SATA 5-7 by SATA CONN)
	Additional	N/A
Expansion Slots		1 x PCIe 3.0 x16
Ethernet	LAN Controller	1 x Intel® i210+1 x Intel® i219
	LAN Port	RJ45:2
USB 3.0		6(4 from rear I/O, 2 via header)
USB 2.0		2(2 from Rear)
M.2		1 (2242, PCIe (x4)/SATA3 6Gb/s (SATA 1)

Accessory
Kits



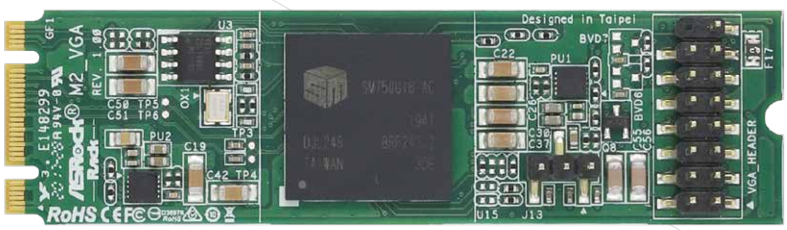
M41202R

25G Ethernet Mezzanine Selection



M540

10G Ethernet Mezzanine Selection



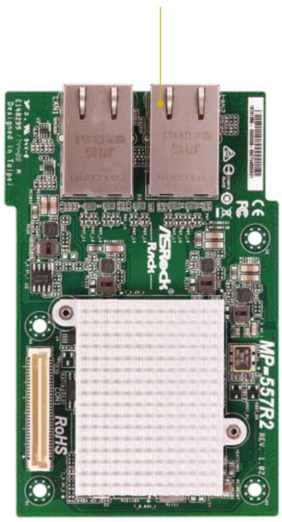
M2_VGA

M.2 Graphic Card via Silicon motion SM750

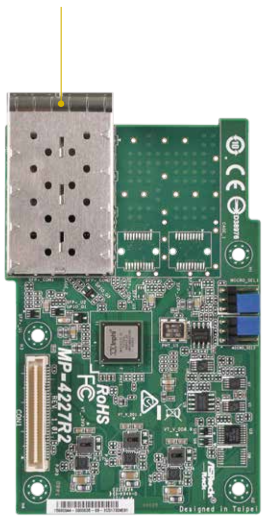
Mezzanine

MP-1543R4 / MP-557R2 / MP-4227R2 / MP-4223R4

MP-1543R4



MP-557R2



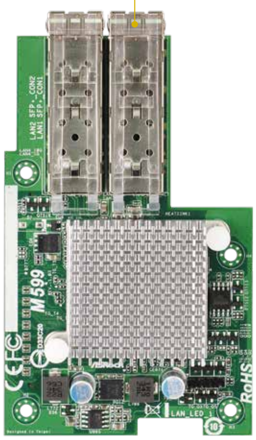
MP-4227R2

MP-4223R4

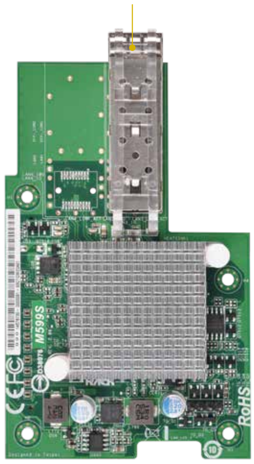
Mezzanine		MP-1543R4	MP-557R2	MP-4227R2	MP-4223R4
Interface		110 x 71.01 mm(OCP PHY Mezzanine Connector C)			
Form Factor		1Gb/100M/s	10Gb/1Gb/100M/s	10Gb/1Gb/100M/s	10Gb/1Gb/100M/s
Chipset		Marvell 88E1543	Intel® X557-AT2	C.S WPCS4227C.A1-900313 BGA121	Inphi CS4223
Ethernet	LAN Port	RJ45:4(GLAN)	RJ45:2(10G Base-T)	2 x 10G SFP+ (Fiber)	4 x 10G SFP+ (Fiber)

Mezzanine

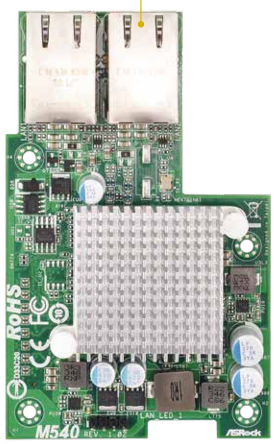
M599 / M599S / M540 / M350 / M350R / M550R2E



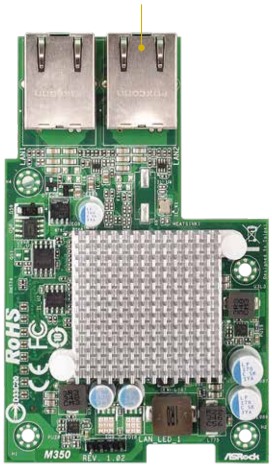
M599



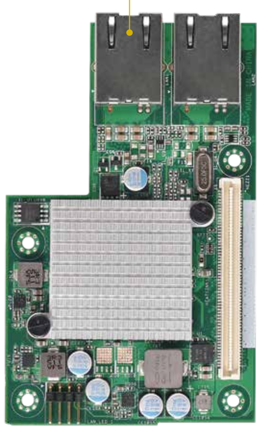
M599S



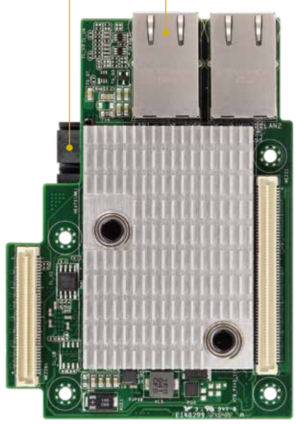
M540



M350



M350R



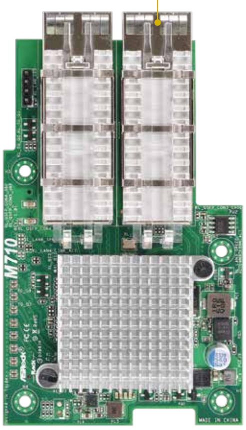
M550R2E

Mezzanine		M599	M599S	M540	M350	M350R	M550R2E
Interface		Mezzanine card 109 x 67 mm					110x78mm
Form Factor		10G/s	10G/s	10G/1G/100M/s	1Gb/s	1Gb/s	10GbE/5GbE/2.5GbE/ 1GbE/100Mb/s
Chipset		Intel® 82599ES	Intel® 82599ES	Intel® X540	Intel® i350	Intel® i350-AM2	Intel® X550
Ethernet	LAN Port	2 (10G Fiber (SFP+))	1 (10G Fiber (SFP+))	RJ45:2(10G Base-T)	RJ45:2	RJ45: 2(GLAN)	RJ45:2(10G Base-T)

Mezzanine

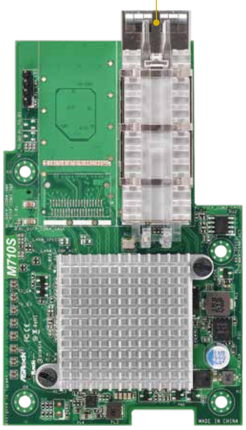
M710 / M710S / MCX3 / M41202R / MX710R / M710DA4

2 x QSFP+ 40Gb/s



M710

1 x QSFP+ 40Gb/s

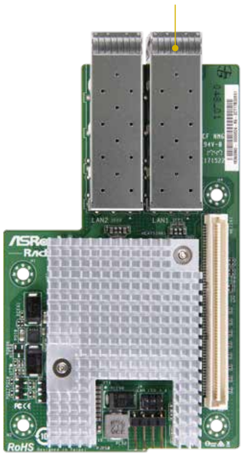


M710S

2 x QSFP+ 40Gb/s

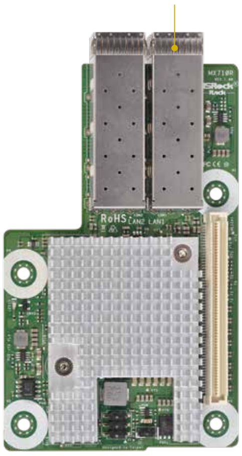
MCX3

2 x 25G/10G SFP28



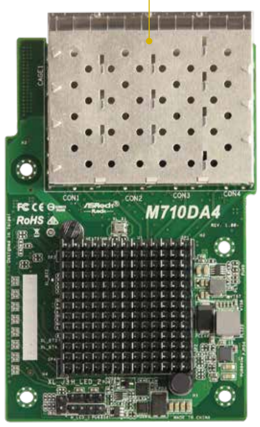
M41202R

2 x QSFP+ 40Gb/s



MX710R

4 x SFP+ Gigabit Ethernet LAN Ports

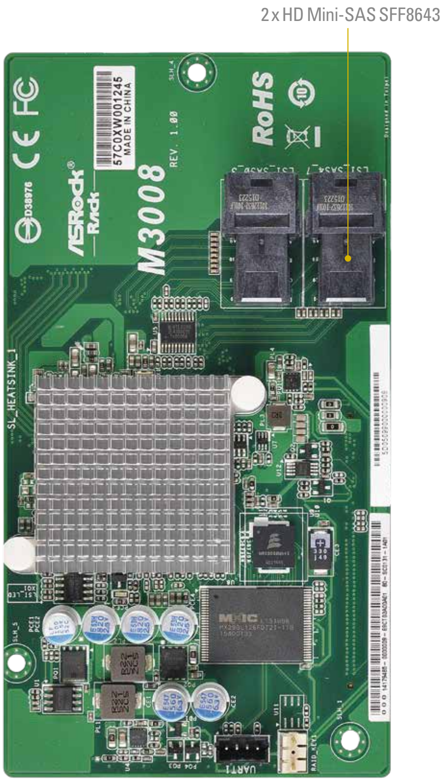


MX710DA4

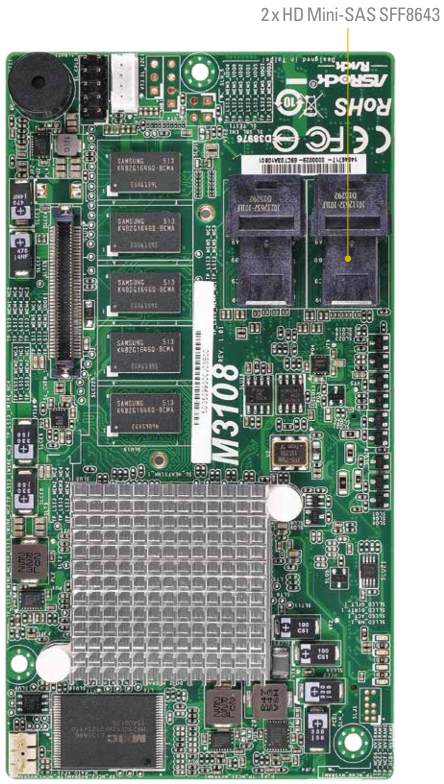
Mezzanine		M710	M710S	MCX3	M41202R	MX710R	MX710DA4
Form Factor		Mezzanine card 68.0mmx109.4mm(PCB board side) 68.0mmx116.8mm(With QSFP connector)			109 x 68 mm(OCP type)		71x110.05mm (PCB board size)
Interface		10/40Gb/s			10Gb/25Gb	10Gb/25Gb	10Gb/25Gb
LAN Controller		Intel® Ethernet Controller XL710-AM2	Intel® Ethernet Controller XL710-AM1	Mellanox ConnectX-3 Pro EN	Qlogic 41202	Intel® Ethernet Controller XL710-AM2	Intel® XL710-AM2
Ethernet	LAN Port	2 x QSFP+ 40Gb/s	1 x QSFP+ 40Gb/s	2 x QSFP+ 40Gb/s	2 x 25G/10G SFP28	2 x QSFP+ 40Gb/s	4x SFP+ Gigabit Ethernet LAN ports

Storage Mezzanine Card

M3008
M3108
M3616



M3008



M3108

M3616

Mezzanine	M3008	M3108	M3616
Form Factor	140 mm x 75 mm		
TYPE	SATA/SAS		SATA/SAS & NVME
Storage Controller	LSISAS3008 PowerPC 476 controller @ 1.2 GHz	LSISAS3108 PowerPC 476 controller @ 1.2 GHz	LSI SAS3616W
Interface	8x PCI Express 3.0		16x PCI Express 3.0
Data Transfer Rates	Up to 12Gb/s per port		
Internal Connectors	2 HD Mini-SAS SFF8643 (Horizontal mount)		4 HD Mini-SAS SFF8643 (Right Angle mount)

Riser Card

1U12LIW_RB1
RB1UX16
RB1X16L
RB4M2
RB2M2
RB1U2M2

1U12LIW_RB1 (X8 Riser card)

RB4M2

RB1UX16 (X16 Riser card)

RB2M2

RB1X16L

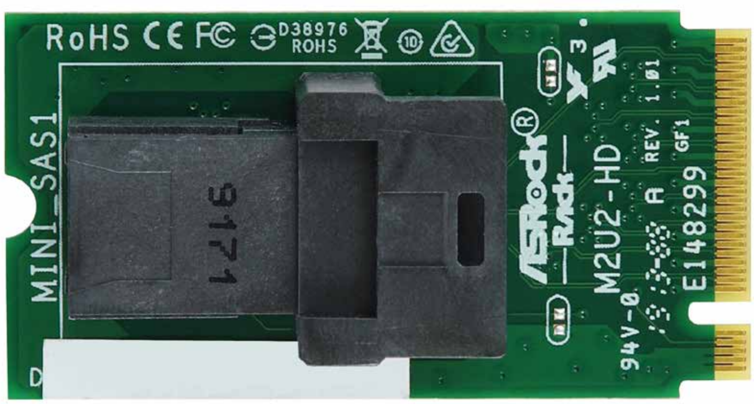
RB1U2M2

Riser Card	1U12LIW_RB1	RB1UX16	RB1X16L
PCIE Spec	X8	X16	X16
Dimension	125 x 32mm		

Riser Card	RB4M2	RB2M2	RB1U2M2
Form Factor	M-Key, 22110	2U	M-Key, 22110
PCIE Spec	x16	x8	x8
Internal Connectors	4 (2 x top & 2 x bottom),UP to 22110	M.2x2(NGFF M-KEY)	2 (1 x top & 1 x bottom),UP to 22110
Dimension	144.8mm*73.7mm	167.59 * 68.90 MM	144.8mm*73.7mm

Adapter Card

M2-HD



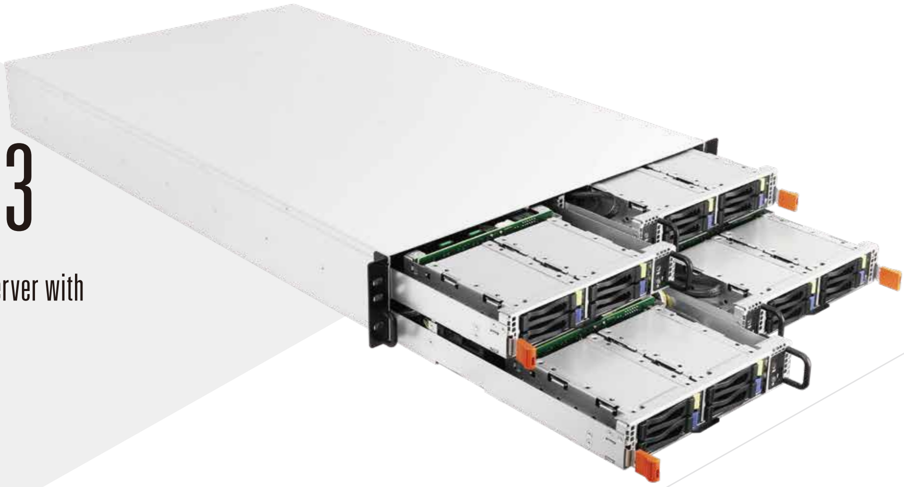
M2-HD

Adapter Card	M2U2-HD
Form Factor	Server Card
Dimension	22mm*42mm (2242 M.2 SIZE)
Features	M2 to U.2 Device (PCIE X4)
Internal Connectors	1 x Mini SAS HD

Barebone
Series

1U4HH-D2123

Powered by Intel® Xeon® D and Verified as the Intel® Select Solution for Ucpe



2U4N-F/ROME-M3

2U 4-Node High-Performance / High-density HPC Server with
AMD EPYC™ 7002 and 7003 Series Processors

4U10G-ICX2/2T

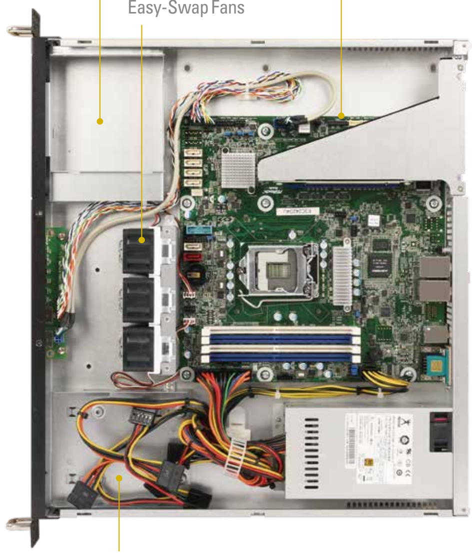
4U Server Applications with Enhanced Performance
and Reliability on Deep Learning Training
by 10x PCIe 4.0 slots

1U2LW-C242

1U2LW-X470

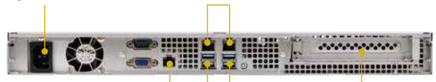
DDR4

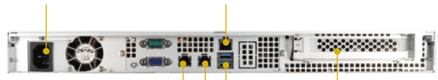
Micro ATX



Application

- Appliance Server
- SMB and Web Hosting





		1U2LW-C242	1U2LW-X470
System Physical Status	Form Factor	1U Rackmount	1U Rackmount
	Chassis Dimension	394 x 482.6 x 44.4 mm (15.5” x 19” x 1.75”)	394 x 482.6 x 44.4 mm (15.5” x 19” x 1.75”)
	Support MB Size	E3C242D4U(Micro-ATX, 9.6'' x 9.6'')	X470D4U(Micro-ATX, 9.6'' x 9.6'')
Front Panel	Buttons	Power On/Standby Button, ID button, System Reset Button, NMI Button	Power On/Standby Button, ID button, System Reset Button, NMI Button
	LEDs	UID, LAN LED	UID, LAN LED
	I/O Ports	4 x USB 3.1 Ports: 2 (Gen2), 2(Gen1)	2 x USB 3.1 Ports
Storage	External	Slim ODD x1(Optional)	Slim ODD x1(Optional)
	Internal	2 x 3.5' SATA HDDs or 1 x 3.5'' SATA HDD & 1 x 2.5'' SATA HDD	2 x 3.5' SATA HDDs or 1 x 3.5'' SATA HDD & 1 x 2.5'' SATA HDD
System cooling	Fan	3 x 40*28 mm PWM Easy-Swap Fans	3 x 40*28 mm PWM Easy-Swap Fans
Power Supply	Capacity	Single PSU	Single PSU
	Output Watts	315W	315W
	Efficiency	GOLD	GOLD

General Purpose

1U2E-C252

DDR4 PCI-E 4.0

Application

- SMB
- Web Hosting
- General Purpose
- Edge Appliances

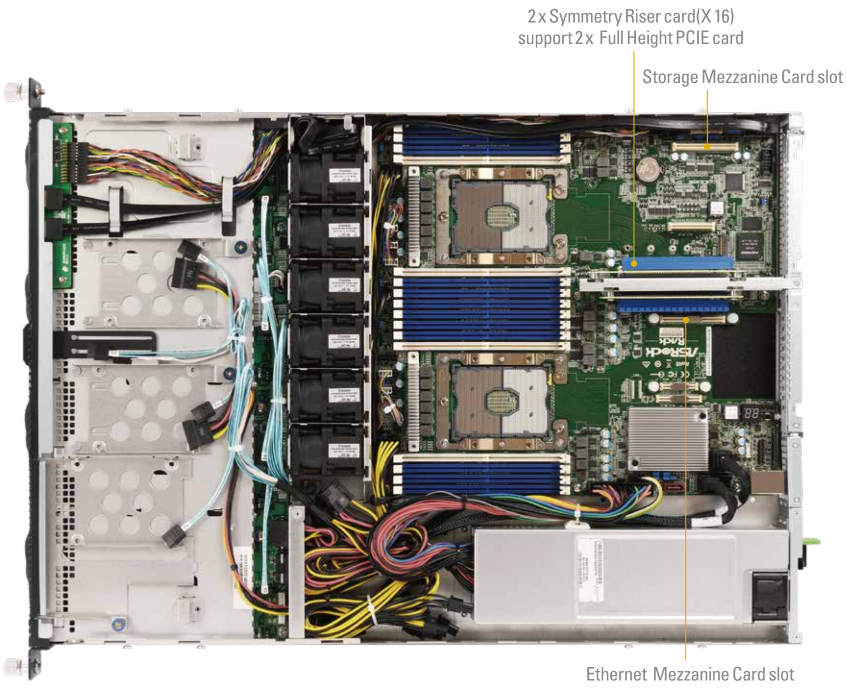
		1U2E-C252
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	393.2 x 430 x 43.5 mm (15.5'' x 16.93'' x 1.71'')
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and Pentium® Series Processor
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power, System Reset
	LEDs	PWR, HDD Activity, LAN 1/2, System Event
	I/O	2 USB3.0 ports
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i210
		1 dedicated IPMI via AST2500
	USB	4 USB3.2 Gen1 (5Gbps)
	VGA	1 DB15 via AST2500
Drive Bay/	External	2 Hot-swap 2.5" NVMe or 2.5'' SATA drive bays
Storage	Internal	1 fixed 3.5'' SATA drive bay or 1 Slim ODD (optional)
		1 M.2 Note1 (PCIe3.0 x2 or SATA 6Gb/s); support 22110/2280/2260 form factor
Power Supply	Module	Single Gold 315W PSU
System Cooling	Fan	4 PWM Simple-Swap 40 x 28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: SATA0 will be disabled when M2_1 populated with SATA device

1U2FH-4L/C622

Xeon Scalable

3647



High-density and High Performance Cloud Computing Nodes for HPC, Telecom and Internet Security

		1U2FH-4L/C622
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	625 mm X 482.6 mm X 44.4 mm
	Support MB Size	EP2C622D16NM(EEB, 12'' x 13'')
Front Panel	Buttons	Power On Button, System Reset Button
	LEDs	POWER, LAN HDD LED
	I/O Ports	1 x USB 3.0 port
Storage	External	4 BAY 3.5"SATA HDD
System Cooling	Fan	6 x 40*56 mm PWM Easy-Swap Fans
Power Supply	Capacity	Single PSU, 1U
	Output Watts	800W
	Efficiency	Platinum

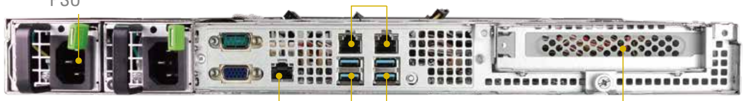
- Compatible Mezzanine LAN Card: M599R/M350R/MP-557R2/MP-557R4/MP-1543R4/MP-4223R4/MP-4227R2
- Compatible Mezzanine Storage Card: M3008/M3108

1U8S-C242

2666 Storage

Application

- Appliance Server
- SMB and Database Processing & Storage



General Purpose

		1U8S-C242
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	E3C242D4U (Micro-ATX, 9.6'' x 9.6'')
CPU		Supports Intel® Xeon® E-2100/E-2200 Series Processor
System Memory		4 DIMM Slots, DDR4 2666/2400 ECC/non-ECC U DIMM
Front Panel	Buttons	Power Switch, System Reset, NMI button
	LEDs	Power Status, LANs, System Fail LEDs
	I/O Ports	1x USB 3.0
MB Tray	I/O Ports	4x USB 3.1(2(Gen2), 2(Gen1)), 1 x D-Sub, 1 x serial port
	LAN Port	RJ45: 2(1G)+1(IPMI)
External Drive Bay	Front Side Drive Bay	External: 8 x Hot-swap 2.5’’ SAS/SATA HDD
		RAID card : LSI SAS9361-8i 1G / CVM02
Power Supply	Capacity	RPSU PSU (1+1)
	Output Watts	300W
	Efficiency	GOLD
System Cooling	Fan	5 x 40*28 mm PWM Easy-Swap Fans

1U4LW-C242 RPSU

1U4LW-C242
1U4LW-X470

DDR4 2666

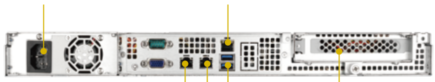
2666

Micro ATX

Micro ATX

Application

- Appliance Server
- SMB and Web Hosting



		1U4LW-C242 RPSU	1U4LW-C242	1U4LW-X470
System Physical Status	Form Factor	1U Rackmount	1U Rackmount	1U Rackmount
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")	533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")
	Support MB Size	Micro-ATX, 9.6'' x 9.6'' (E3C242D4U)	Micro-ATX, 9.6'' x 9.6'' (E3C242D4U)	Micro-ATX, 9.6'' x 9.6'' (X470D4U)
CPU		Supports Intel® Xeon® E-2100/E-2200 Series Processors	Supports Intel® Xeon® E-2100/E-2200 Series Processors	AMD Ryzen™ PRO/ 3000 and 2000 Series Desktop Processors
System Memory		4 DIMM Slots, DDR4 2666/2400 ECC/ non-ECC U DIMM	4 DIMM Slots, DDR4 2666/2400 ECC/ non-ECC U DIMM	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 button	Power Switch, ID Switch, System Reset, NMI button	Power Switch, ID Switch, System Reset, NMI Buttons
	LEDs	Power Status, HDD, LANs, System Fail LEDs	Power Status, HDD, LANs, System Fail LEDs	Power Status, HDD,LANs, System Fail LEDs
	I/O Ports	2x USB3.0	2x USB3.0	2x USB 3.0
MB Tray	I/O Ports	4x USB3.1(2(Gen2), 2(Gen1)), 1 x D-Sub, 1 x serial port	4x USB3.1(2(Gen2), 2(Gen1)), 1 x D-Sub, 1 x serial port	1 x D-Sub, 2 x USB3.1 Gen 1 Ports, 1 x serial port
	LAN Port	RJ45: 2(1G)+1(IPMI)	RJ45: 2(1G)+1(IPMI)	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: 2.5'' HDD x 2	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: 2.5'' HDD x 2	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	RPSU PSU (1+1)	Single PSU	Single PSU
	Output Watts	300W	400W	400W
	Efficiency	GOLD	GOLD	GOLD
System Cooling	Fan	5 x 40*28 mm PWM Easy-Swap Fans	5 x 40*28 mm PWM Easy-Swap Fans	5 x 40*28 mm PWM Easy-Swap Fans

AMD RYZEN

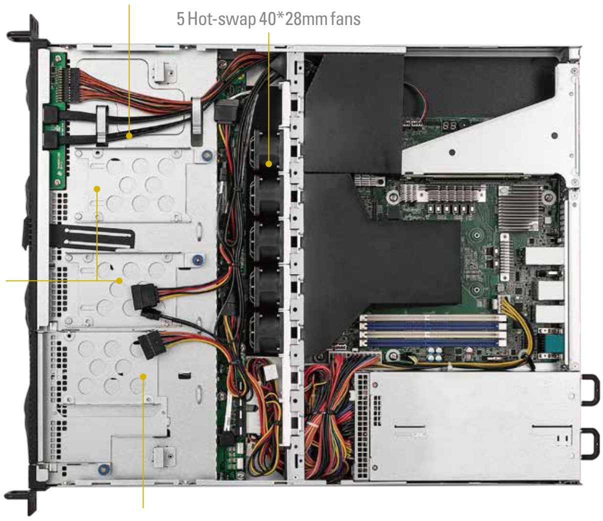
1U4LW-X570/2L2T RPSU

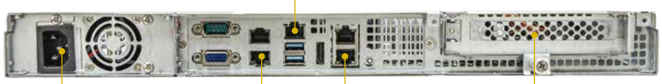
1U4LW-X570/2L2T

DDR4 PCI-E 4.0 10Gbase-T

Application

- SMB
- Web Hosting
- General Purpose



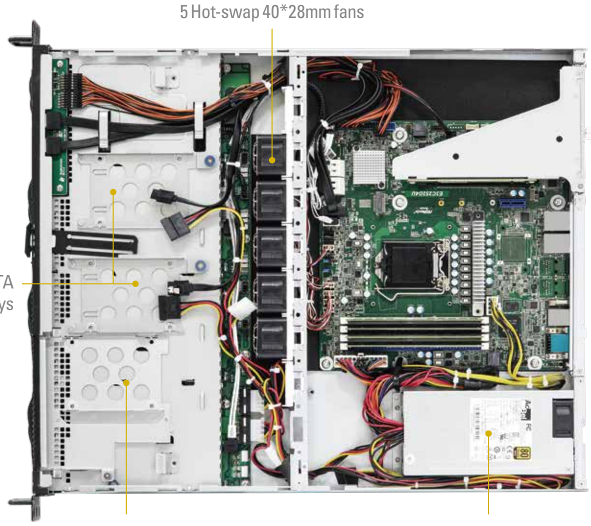


		1U4LW-X570/2L2T RPSU (AMD RYZEN)	1U4LW-X570/2L2T (AMD RYZEN)
System Physical Status	Form Factor	1U Rackmount	
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21'' x 19'' x 1.75'')	
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000G, 3000 Series Desktop Processors	
DIMM	Slot	4 DDR4 288-pin (2DPC)	
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	
		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/	External	4 Hot-swap 3.5'' SATA drive bays [Front]	
	Internal	2 fixed 2.5'' SATA drive bays	
		1 fixed 2.5'' SATA drive bay or 1 Slim ODD	
		1 M-key Note2 (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU]	
		1 M-key Note2 (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]	
Power Supply	Module	1+1 450W RPSU	1 400W PSU
System Cooling	Fan	5 PWM Hot-swap 40 x 28 mm fans	
Management		ASPEED BMC AST2500	
Security		TPM by optional accessory	

Note1: Supports PCIe3.0 x8 when using AMD Ryzen 3000 Series Processors with Radeon Graphics
Note2: Supports PCIe3.0 when using AMD Ryzen 3000 Series Processors with Radeon Graphics

1U4LW-C252

DDR4 | PCI-E 4.0 | 10Gbase-T



Application

- SMB
- Web Hosting
- General Purpose

		1U4LW-C252
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	533.4 x 482.6 x 44.4 mm (21'' x 19'' x 1.75'')
CPU	Socket	1 Socket H5 (LGA1200) for Intel® Xeon® E-2300 and Pentium® Series Processor
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power Switch, ID Switch, System reset, NMI
	LEDs	PWR, UID, 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 via AST2500
	USB	4 USB3.2 Gen1 (5Gbps)
	VGA	1 DB15 via AST2500
Expansion Slots	Rear	1 PCIe4.0 x16 for full height card
Drive Bay/ Storage	External	4 Hot-swap 3.5'' SATA drive bays
		1 Slim ODD (optional)
	Internal	2 fixed 2.5'' SATA drive bays
		1 M.2 [Note1] (PCIe3.0 x2 or SATA 6Gb/s); support 22110/2280/2260 form factor
Power Supply	Module	Single Gold 400W PSU
System Cooling	Fan	5 PWM Simple-Swap 40 x 28 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: SATA0 will be disabled when M2_1 populated with SATA device

RM138-C622LM/4L

1U/2U High Density Computes

Xeon Scalable 3647

L shape

General Purpose

Application

- Support Dual Scalable Processors
- High Performance Server Optimized

4 x 3.5" SATA/SAS HDD

800W Platinum,
2 (1+1), Redundant CPRS PSU

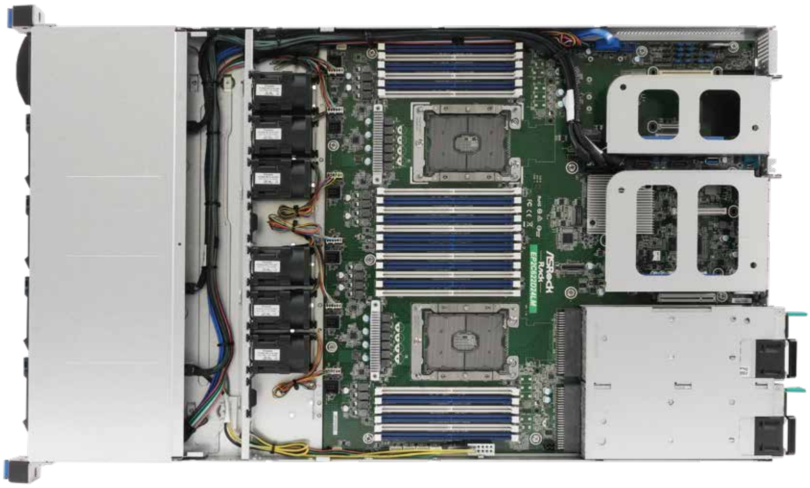
		RM138-C622LM/4L
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	735mm x 438.5mm x 43.2mm
	Support MB Size	L shape,16.7" x17"(EP2C622D24LM/1U)
Front Panel	Buttons	Power On button, ID button
	LEDs	Power LED, Identification LED, System Alarm LED, HDD Activity LED
	I/O Ports	2 x USB 3.0 ports
Storage	Front side	4 x 3.5" SATA HDD/4 x 3.5" SAS HDD (with RAID/HBA card)
System Cooling	Fan	6 x 40*56 mm PWM systems fans
Power Supply	Capacity	2 (1+1), Redundant CPRS PSU
	Output Watts	800W
	Efficiency	Platinum

RM138-C622LM/10S

1U/2U High Density Computes

3647

L shape



Application

- support 10 x 2.5" SATA HDD
- Storage Server Optimized

10 x 2.5" SATA/SAS HDD

800W Platinum,
2 (1+1), Redundant CPRS PSU

		RM138-C622LM/10S
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	735mm x 438.5mm x 43.2mm
	Support MB Size	L shape,16.7" x17"(EP2C622D24LM/1U)
Front Panel	Buttons	Power On button, ID button
	LEDs	Power LED, Identification LED, System Alarm LED
	I/O Ports	2 x USB 3.0 ports
Storage	Front side	10 x 2.5" SATA HDD/10 x 2.5" SAS HDD (with RAID/HBA card)
System Cooling	Fan	6 x 40*56 mm PWM systems fans
Power Supply	Capacity	2 (1+1), Redundant CPRS PSU
	Output Watts	800W
	Efficiency	Platinum

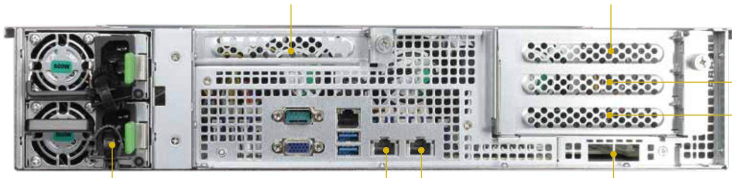
AMD EPYC

2U12L2S-ROME/2T

Storage | 3200 | 10Gbase-T

Application

- Software-defined Storage
- Data Analytics



General Purpose

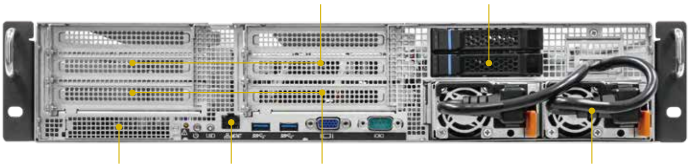
		2U12L2S-ROME/2T
CPU	Socket	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
DIMM	Capacity	8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 3200MHz
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	482.6 x 625 x 87 mm (includes ears)
Front Panel	Buttons	Power button w/LED, UID button, NMI button (left ear)
	LEDs	LAN1 and LAN2, system fault
	USB	1 Type-A USB3.1 Gen1 (right ear)
Rear IO	RJ45	2 RJ45 (10GbE) via Intel® X550-AT2
		1 dedicated IPMI via AST2500
	USB	2 USB3.2 Gen1 (5Gbps)
	Video	1 DB15 (VGA) via AST2500
	Others	1 DB9 COM port, 1 UID button w/ LED
Expansion Slots	Rear	3 PCIe4.0 x16 for FHFL cards
		1 PCIe4.0 x8 for FHHL cards
		1 OCP2.0 Mezzanine connector A and B (PCIex16)
Storage	External Drive Bay	12 Hot-swappable 3.5" (SATA 6Gb/s)
	Internal Storage	1 M-key (PCIe3.0x4/ SATA); Form factor: 2280
		2 SFF 2.5"" drive bay
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CRPS
System Cooling	Fan	4 80x38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory (TPM2-S)

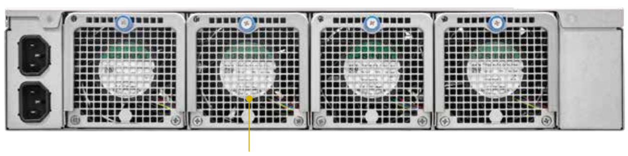
2U2E-F/ICX2

DDR4 PCI-E 4.0

Application

- Mobile Edge Computing
- AI Interface
- 5G O-RAN
- NFVi





General Purpose

		2U2E-F/ICX2
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	438 x 615 x 87 mm (17.24'' x 24.21'' x 3.43'')
CPU	Socket	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power w/ LED, UID w/ LED
	LEDs	System error LED
	I/O	2 USB 3.2 Gen1 ports, 1 DB15 (VGA), 1 DB9 (COM), 1 dedicated IPMI
Expansion Slots	Front	1 dual-slot PCIe4.0 x16 Note1 [CPU0]
		1 dual-slot PCIe4.0 x16 Note1 [CPU1]
		1 OCP3.0 PCIe4.0 x16 [CPU0]
		1 FH PCIe4.0 x8 [CPU0]
		1 FH PCIe4.0 x8 [CPU1]
Drive Bay/	External	2 Hot-swap 2.5'' SATA/NVMe drive bays [Front]
Storage	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor [PCH]
Power Supply	Module	1+1 1600W CRPS
System Cooling	Fan	4 PWM Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Please contact ASRock Rack for dual-slot cards compatibility.

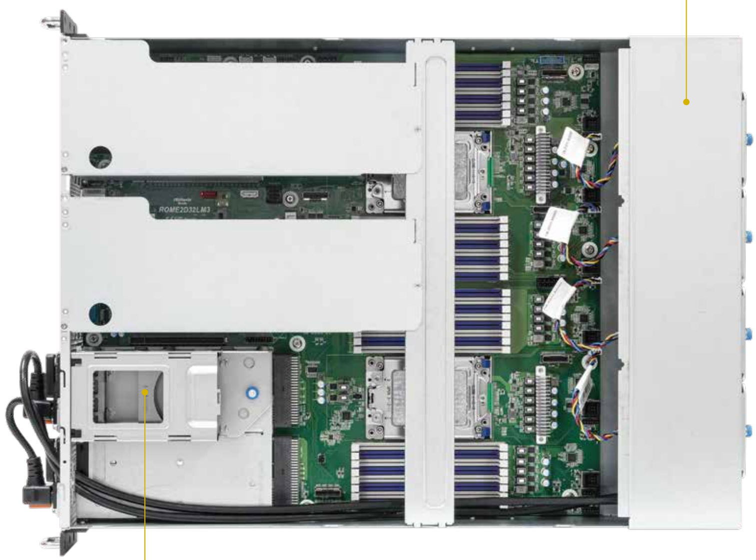
AMD EPYC

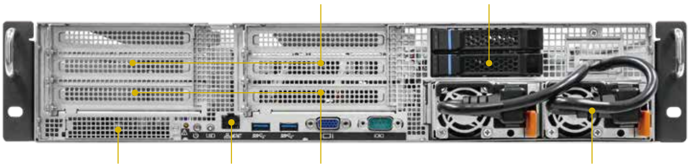
2U2E-F/ROME2

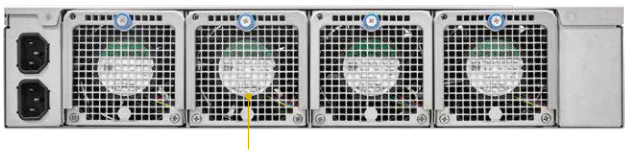
DDR4 PCI-E 4.0

Application

- Mobile Edge Computing
- AI Interface
- 5G O-RAN
- NFVi







General Purpose

		2U2E-F/ROME2
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	438 x 615 x 87 mm (17.24'' x 24.21'' x 3.43'')
CPU	Socket	1+1 Socket SP3 (LGA4094) for AMD EPYC™ 7002 and 7003 Series Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power w/ LED, UID w/ LED
	LEDs	System error LED
	I/O	2 USB 3.2 Gen1 ports, 1 DB15 (VGA), 1 DB9 (COM), 1 dedicated IPMI
Expansion Slots	Front	1 dual-slot PCIe4.0 x16 Note1 [CPU0]
		1 dual-slot PCIe4.0 x16 Note1 [CPU1]
		1 OCP3.0 PCIe4.0 x16 [CPU0]
		1 FH PCIe4.0 x8 [CPU0]
		1 FH PCIe4.0 x8 [CPU1]
Drive Bay/ Storage	External	2 Hot-swap 2.5'' SATA/NVMe drive bays [Front]
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2242 form factor [CPU0]
		1 M-key (PCIe3.0 x2), supports 2280/2260/2242/2230 form factor [CPU0]
Power Supply	Module	1+1 1600W CRPS
System Cooling	Fan	4 PWM Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Please contact ASRock Rack for dual-slot cards compatibility.

RM237-C622LM

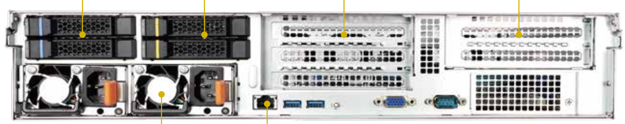
RM23712-C622LM/22E

L shape

Storage

Application

- Virtualization
- Hyperconverge Storage
- Enterprise Server
- E-commerce



		RM237-C622LM	RM23712-C622LM/22E
System Physical Status	Form Factor	2U Rackmount	2U Rackmount
	Chassis Dimension	735 x 438 x 87 mm (28.94'' x 17.24'' x 3.43'')	735 x 438 x 87 mm (28.94'' x 17.24'' x 3.43'')
CPU	Socket	1+1 Socket P (LGA3647) for 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors	1+1 Socket P (LGA3647) for 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
DIMM	Slot	12+12 DDR4 288-pin (2DPC)	12+12 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power On button, UID button, System reset button	Power On button, UID button, System reset button
	LEDs	HDD Activity LED, System Status LED, LAN1 Activity LEDs, LAN2 Activity LEDs	HDD Activity LED, System Status LED, LAN1 Activity LEDs, LAN2 Activity LEDs
	I/O	1 USB2.0 port, 1 USB3.0 port, 1 DB15 (VGA)	1 USB2.0 port, 1 USB3.0 port, 1 DB15 (VGA)
Rear IO	RJ45	1 dedicated IPMI	1 dedicated IPMI
	USB	2 USB3.2 Gen1 ports	2 USB3.2 Gen1 ports
	Others	1 UID, 1 DB15 (VGA), 1 DB9 (COM)	1 UID, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU0] 1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU1]	1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU0] 1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU1]
Drive Bay/ Storage	External	12 Hot-swap 3.5'' SAS Note1 /SATA drive bays [Front] 2 Hot-swap 2.5'' SAS Note1 /SATA drive bays [Rear]	12 Hot-swap 3.5'' SAS Note1 /SATA drive bays [Front] 2 Hot-swap 2.5'' SAS Note1 /SATA drive bays [Rear] 2 Hot-swap 2.5'' NVMe drive bays [Rear]
	Internal	2 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/ 2230 form factor	2 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/ 2230 form factor
Power Supply	Module	1+1 Platinum 1200W CRPS	1+1 Platinum 1200W CRPS
System Cooling	Fan	6 PWM Hot-swap 60 x 38 mm fans	6 PWM Hot-swap 60 x 38 mm fans
Management		ASPEED BMC AST2500	ASPEED BMC AST2500
Security		TPM by optional accessory	TPM by optional accessory

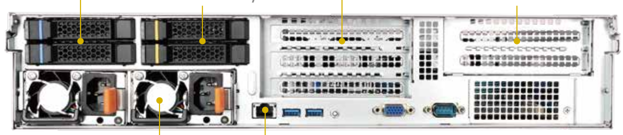
Note1: SAS drive is only supported with additional RAID/HBA cards

RM23724-C622LM/22E

L shape   Storage

Application

- Software-defined Application
- Hyperconverge Storage
- Enterprise Mission Critical Server
- E-commerce
- Virtualization



		RM23724-C622LM/22E
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	735 x 438 x 87 mm (28.94'' x 17.24'' x 3.43'')
CPU	Socket	1+1 Socket P (LGA3647) for 2nd Gen. Intel® Xeon® Scalable Processors / Intel® Xeon® Scalable Processors
DIMM	Slot	12+12 DDR4 288-pin (2DPC)
Front Panel	Buttons	Power On button, UID button, System reset button
	LEDs	HDD Activity LED, System Status LED, LAN1 Activity LEDs, LAN2 Activity LEDs
	I/O	1 USB2.0 port, 1 USB3.0 port, 1 DB15 (VGA)
Rear IO	RJ45	1 dedicated IPMI
	USB	2 USB3.2 Gen1 ports
	Others	1 UID, 1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Rear	1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU0]
		1 FH PCIe3.0 x16 or 2 FH PCIe3.0 x8 [CPU1]
Drive Bay/ Storage	External	12 Hot-swap 3.5'' SAS/SATA drive bays Note1 [Front]
		12 Hot-swap 3.5'' SAS Note1 /SATA drive bays [Front]
		2 Hot-swap 2.5'' SAS Note1 /SATA drive bays [Rear]
		2 Hot-swap 2.5'' NVMe drive bays [Rear]
	Internal	2 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260/2242/2230 form factor
Power Supply	Module	1+1 Platinum 1200W CRPS
System Cooling	Fan	6 PWM Hot-swap 60 x 38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Supports 12 SAS/SATA drive bays via M3616 mezzanine card
Note2: SAS drive is only supported with additional RAID/HBA cards

1U10E-ROME/2T

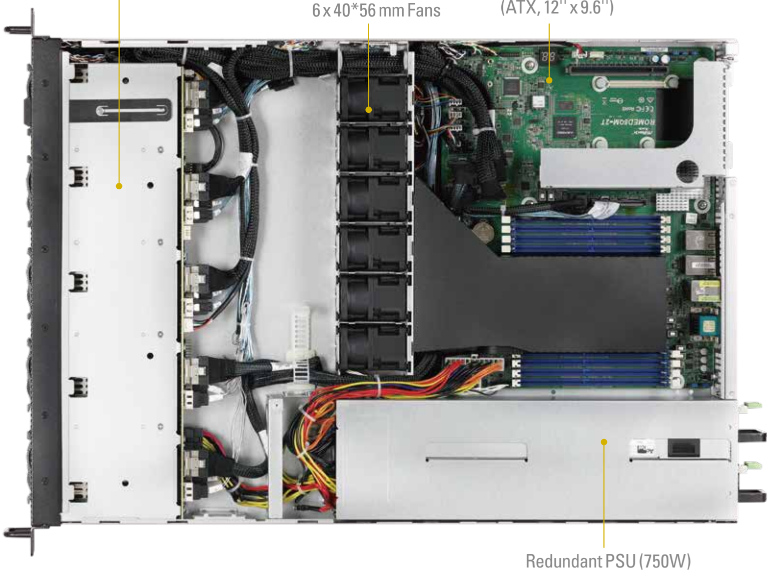
DDR4 2666

2666

1U/2U High Density Storage

10G

10Gbase-T



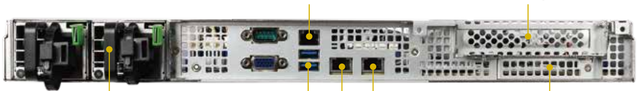
10 x 2.5" NVMe/SATA HDD

Application

- Data Center Server
- SMB and Database Processing & Storage

IPMI Dedicated LAN

1 x Single-width PCIe x16 Card (by Riser Card)



Redundant PSU (750W)

2 x USB3.1 Ports

1 x OCP2 PCIe x16 module

2 x RJ45
10G LAN by Intel® X550

		1U10E-ROME/2T AMD EPYC
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 and 7003 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
	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 Hot-Swap fans

1U12XL-EPYC/2T

1U12XL-EPYC/2T2E

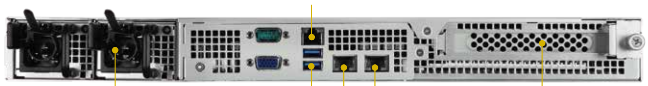
3200

1U/2U High Density Storage

10Gbase-T

Application

- High-density Web 2.0
- Cloud Datacenter Storage



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

1U12XL-C622 RPSU

Xeon Scalable
3647

DDR4 2666
2666

Storage
Storage

High-density Web 2.0
Cloud Datacenter Storage

		1U12XL-C622 RPSU
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	860 x 438.5 x 43.2 mm
	Support MB Size	CEB, 12''x10.5" (EP2C622D16FM)
Front Panel	Buttons	Power On/Standby button, UID button, System reset button
	LEDs	Power Status LED, LAN activity LED, HDD status LED
	I/O Ports	N/A
Storage	External	2 Hot-Swappable Bay for 2.5" 7mm SATA / SAS* HDD
	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	3x Quad ports Backplane for drives*
		*SFF-8482 connector
System Cooling	Fan	6 x 40*28 mm system fans
Power Supply	Capacity	2 (1+1), 1U Redundant
	Output Watts	700W
	Efficiency	Platinum

- Compatible Mezzanine Lan Card: MP-4227R2, MP-557R2
- Compatible Mezzanine Storage Card: M3008S

4U36L2S-C621

4U36L2S-C612

DDR4 Storage SAS3 12Gb/s

Application

- Cloud Datacenter Storage
- Virtual Tape Library

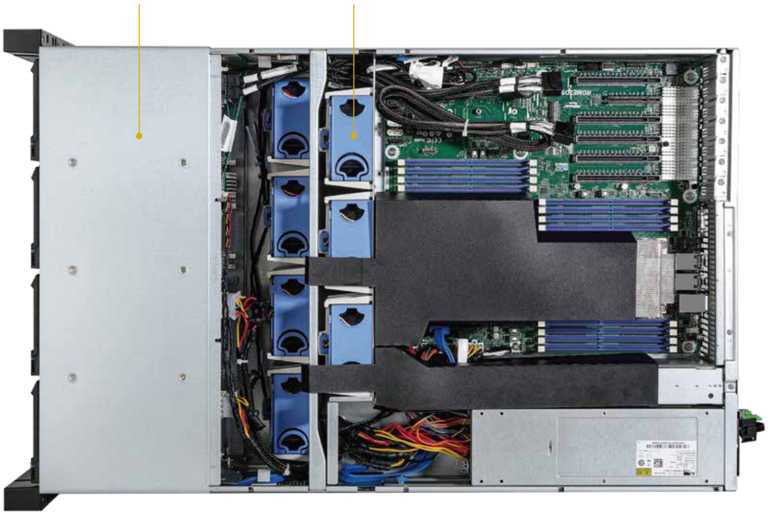
		4U36L2S-C621	4U36L2S-C612
System Physical Status	Form Factor	4U Rackmount	4U Rackmount
	Chassis Dimension	625mm X 482.6mm X 174.3 mm	625mm X 482.6mm X 174.3 mm
	Support MB Size	EP2C612D16SM-2T(EEB, 12'' x 13'')	EP2C622D16-2T(EEB, 12'' x 13'')
Front Panel	Buttons	Power On Button, UID, Reset, NMI, System Reset Button	Power On Button, UID, NMI, System Reset Button
	LEDs	LAN, HDD LED, System Fail Activity LEDs	LAN, HDD LED, System Fail Activity LEDs
	I/O Ports	2 x USB 3.0 ports	2 x USB 3.0 ports
Storage	External	36 x Hot-Swap Drive Bay 2.5""/3.5'' SATA HDD (6Gb/s) or 36 x SAS (12Gb/s) (depends on RAID card) 2 x Hot-Swap Drive Bay 2.5"" (in the rear side)"	36 x Hot-Swap Drive Bay 2.5""/3.5'' SATA HDD (6Gb/s) or 36 x SAS (12Gb/s) (depends on RAID card) 2 x Hot-Swap Drive Bay 2.5"" (in the rear side)"
System cooling	Fan	7 x 80*38 mm PWM Hot-Swap Fans	6 x 40*56 mm PWM Easy-Swap Fans
Power Supply	Capacity	1 (1+1), Redundant	2 (1+1), Redundant
	Output Watts	1200W	1200W
	Efficiency	Platinum	Platinum

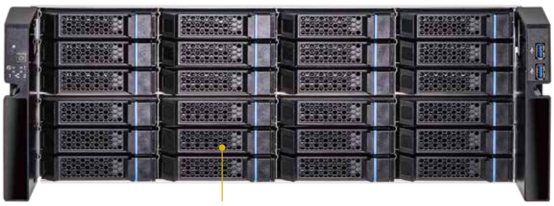
4U36L2E-ROME2/2T

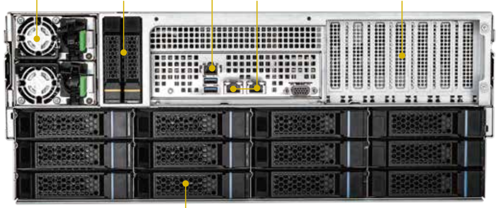
Storage PCI-E 4.0 10Gbase-T

Application

- Corporate Database
- Enterprise Server







		4U36L2E-ROME2/2T
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	699 x 432 x 176 mm (27.52'' x 17.01'' x 6.93'')
CPU	Socket	1+1 Socket SP3 (LGA4094) for AMD EPYC™ 7002 and 7003 Series Processors
DIMM	Slot	8+8 DDR4 288-pin (1DPC)
Front Panel	Buttons	System reset, Power
	LEDs	Power, LAN1 activity, LAN2 activity, System fail, HDD status
	I/O	2 USB3.2 Gen1 ports
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
		1 dedicated IPMI
	USB	2 USB3.2 Gen1 ports
	Others	1 UID, 1 DB15 (VGA)
Expansion Slots	Rear	3 LP PCIe4.0 x16 [CPU0]
		2 LP PCIe4.0 x16 [CPU1]
		1 LP PCIe4.0 x8 [CPU1]
Drive Bay/ Storage	External	24 Hot-swap 3.5'' SAS/SATA drive bays [Note1] [Front]
		12 Hot-swap 3.5'' SAS/SATA drive bays [Note1] [Rear]
		2 Hot-swap 2.5'' NVMe drive bays [Rear]
	Internal	1 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [CPU0]
		1 M-key (PCIe4.0 x4), supports 22110/2280/2242 form factor [CPU0]
Power Supply	Module	1+1 Platinum 1200W CRPS
System Cooling	Fan	7 Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

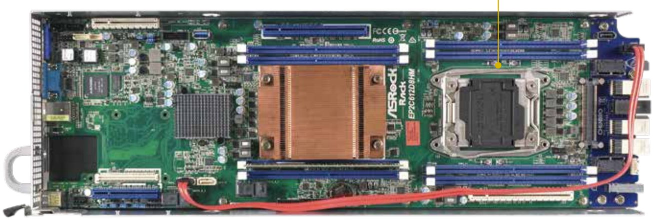
Note1: Additional RAID/HBA card required to support the 36 3.5'' drive bays

4U100-C612

Storage | 2011-R3 | Half-width

Application

- Hyper-scale Cloud Datacenter Storage
- Software-defined Storage Applications
- Virtual Tape Library



		4U100-C612
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	448x 175x 1000mm
	Support MB Size	Half-width, 6.5''x 18.6" (EP2C612D8HM)
Front Panel	Buttons	Power On/Standby button, ID button
	LEDs	Power LED, Identification LED, 4x Network activity LEDs, System event LED
	I/O Ports	1 x USB 2.0 ports
Storage	Front side	100 x 3.5" Drive Bay (from BP) + 2 x 2.5'' Drive Bay (from MB)
System cooling	Fan	4x 80*38mm fan hot-swap (front) 4x 80*38mm fan hot-swap (rear) 3x 40*56mm dual motor fan (on Mid-plane)
Power Supply	Capacity	2 (1+1), Redundant CPRS PSU
	Output Watts	2000W
	Efficiency	Platinum

- Compatible Mezzanine Lan Card: M350R, M599R

1U1G-WC422/2T

10Gbase-T

Application

- Cloud Gaming
- Redering Machine
- Content Creation

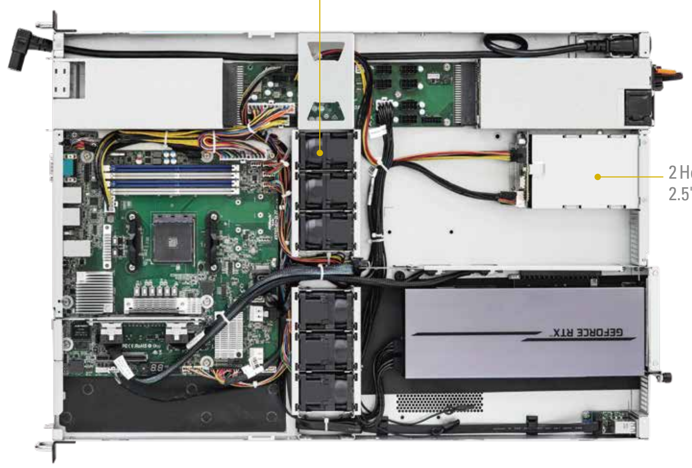
		1U1G-WC422/2T
CPU	Socket	1 LGA2066, supports Intel® Xeon® W-2200/ W-2100 Processors
DIMM	Slot	8 DDR4 288-pin (2DPC); Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 2933MHz (1DPC)/ 2666MHz (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438 x 650 x 43.5 mm (without ear)
Front Panel	Buttons	UID , Power , Reset
Front IO	LEDs	System Fail, LAN1, LAN2
	RJ45	2 RJ45(10GbE) by Intel® X550-AT2
		1 dedicated IPMI via AST2500
	USB	2 USB3.2 Gen2, 4 USB3.2 Gen1
	Video	1 DB15 via AST2500
	Audio	5 audio jack + SPDIF
Rear IO	USB	2 USB3.2 Gen1, 2 USB 2.0
Expansion Slots	Rear	1 PCIe3.0 x16 for dual slot cards
Storage	External Drive Bay	4 SFF 2.5" (PCIe3.0x4/ SATA)*
	Internal Storage	1 M-key (PCIe3.0x4/SATA), 1 M-key (PCIe3.0x4)
Power Supply	Module	1+1, 80-PLUS Platinum, 800W CRPS
System Cooling	Fan	6 dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory (TPM2-S)

*SATA interface is BTO

AMD RYZEN

1U1G-X570/2L2T

DDR4 PCI-E 4.0 10Gbase-T



Application

- Cloud Gaming
- AI Edge Computing
- VDI

GPU server

		1U1G-X570/2L2T
ystem Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	660.4 x 438.0 x 43.5 mm (26'' x 17.24'' x 1.71'')
CPU	Socket	1 Socket AM4 (PGA1331) for AMD Ryzen™ 5000G, 5000, 4000G, 3000G, 3000 Series Desktop Processors
DIMM	Slot	4 DDR4 288-pin (2DPC)
Front Panel	Buttons	Reset, Power
	LEDs	System Fail, LAN1, LAN2
	I/O	2 RJ45(10GbE) by Intel® X550-AT2
		2 RJ45 (1GbE) by Intel® i210
		1 dedicated IPMI
		2 USB3.2 Gen1 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/	External	2 Hot-swap 2.5'' SATA drive bays
Storage	Internal	1 M-key Note2 (PCIe4.0 x4 or SATA 6Gb/s), supports 22110/2280/2260/2242 form factor [CPU]
		1 M-key Note2 (PCIe4.0 x4 or SATA 6Gb/s), supports 2280/2260/2242 form factor [FCH]
Power Supply	Module	1+1 Platinum 1200W/800W CRPS
System Cooling	Fan	6 dual-rotor 40 x 56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory

Note1: Supports PCIe3.0 x8 when using AMD Ryzen 3000 Series Processors with Radeon Graphics
Note2: Supports PCIe3.0 when using AMD Ryzen 3000 Series Processors with Radeon Graphics

AMD EPYC

1U2G-ROME/2T

DDR4 3200

3200

10G

10Gbase-T

PCI-E 4.0

PCI-E 4.0

Application

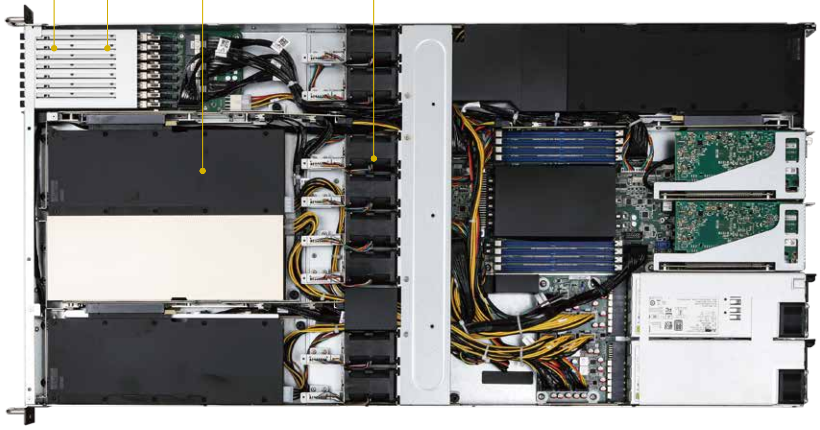
- Edge Computing
- Redering Machine

		1U2G-ROME/2T AMD EPYC
CPU	Socket	1 SP3(LGA4094), supports AMD EPYC 7002 Series Processors
DIMM	Slot	8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each; max. 3200MHz
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	438 x 650 x 43.5 mm (without ear)
Front Panel	Buttons	UID , Power , Reset
	LEDs	System Fail, LAN1, LAN2
Front IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
		1 dedicated IPMI via AST2500
	USB	2 USB3.1 Gen1
	Video	1 DB15 (VGA) via AST2500
	Serial	1 DB9 COM port
Expansion Slots	Front	1 PCIe4.0 x16 for FHHL cards
		1 OCP2.0 Mezzanine connector A and B (PCIex16)
	Rear	2 PCIe4.0 x16 for dual-slot cards
Storage	External Drive Bay	2 SFF 2.5" (PCIe3.0 x4/ SATA) at rear
	Internal Storage	1 M-key (PCIe3.0x4/ SATA); Form factor: 2280
Power Supply	Module	1+1, 80-PLUS Platinum, 1200W CRPS
System Cooling	Fan	6 dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM by optional accessory (TPM2-S)

1U4G-ROME

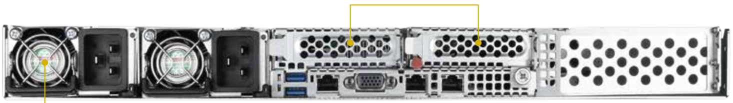
3200

PCI-E 4.0



Application

- High-performance Technical Computing
- Deep Learning
- Big Data Analytics
- Artificial Intelligence (AI)



		1U4G-ROME
CPU	Socket	Socket SP3 (LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
Memory	Capacity	8 DDR4 DIMM slots (1DPC), Supports DDR4 R-DIMM up to 64GB each/ LR-DIMM up to 256GB each/ NVDIMM; max. 3200MHz
System	Form Factor	1U Rackmount
Physical Status	Chassis Dimension	438 x 880 x 43.5 mm (without ear)
Front Panel	Buttons	UID , Power, Reset
	LEDs	System Fail, Power, LAN1, LAN2
	I/O	1 USB 3.2 Gen1 (5Gbps)
Rear IO	RJ45	2 (1GbE) by Intel® i350-AM2
		1 dedicated IPMI via AST2500
	USB	2 USB3.2 Gen1 (5Gbps)
	Video	1 DB15 (VGA) via AST2500
Expansion Slots	Front	3 PCIe4.0 x16 for dual slot cards*
	Rear	1 PCIe4.0 x16 for dual slot cards*
		2 PCIe4.0 x16 for low-profile cards
Storage	External Drive Bay	8 E1.S or M.2 (PCIe4.0x4)
Power Supply	Module	1+1, 80-PLUS Platinum, 2000W CRPS
System Cooling	Fan	8 dual-rotor hot-swap 40x56 mm fans
Management		ASPEED BMC AST2500
Security		TPM 2.0 on board

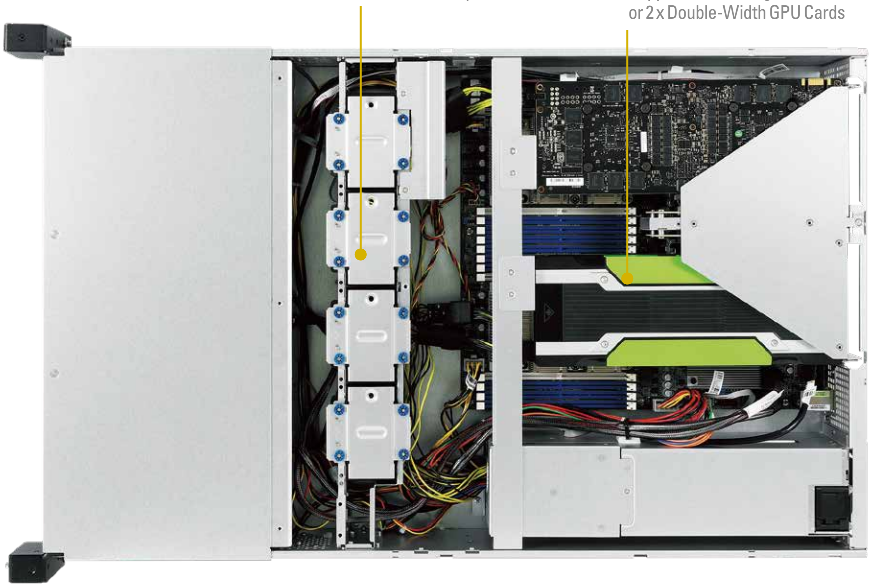
*Do not support cards with power connector on the top edge

2U2G/C622

GPGPU

NVIDIA TESLA

2933



Converged Server, HPC, Virtualization, and Big Data

		2U2G/C622
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	715mm x 448mm x 86mm(28.1” x 17.6” x 3.4”)
	Support MB Size	EEB, 12'' x 13''(EP2C622D16NM)
Front Panel	Buttons	Power On/Standby button, UID button
	LEDs	System LED, UID LED, Power LED, 2 xNetwork activity LED
	I/O Ports	2 x USB 2.0 ports
Storage	External	8 x 3.5" SATA HDDs(6GB/s)
	Internal	4x 2.5"SATA HDDs(6GB/s)
System Cooling	Fan(Front)	4 x 80*38 system fans
Power Supply	Capacity	2U(1+1)Redundant
	Output Watts	1600W
	Efficiency	Platinum

AMD EPYC

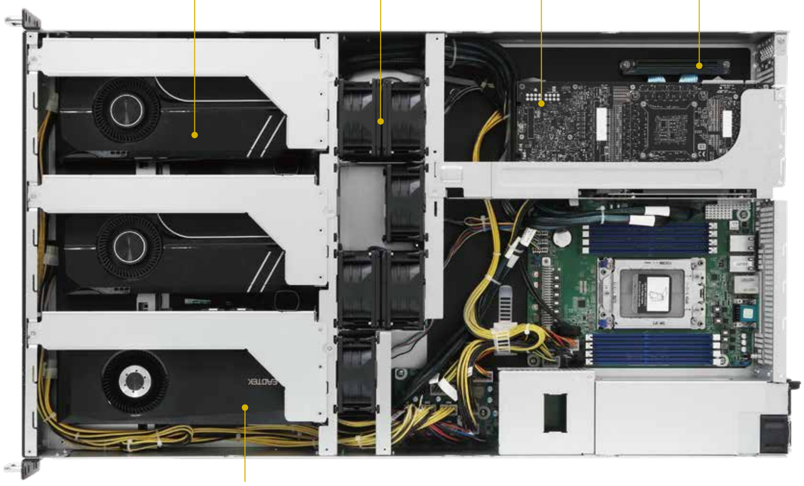
2U4G-ROME/2T

DDR4 3200

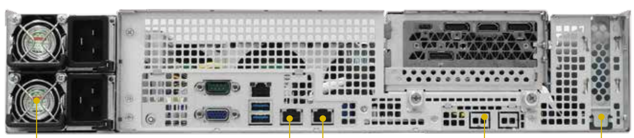
3200

10G

10Gbase-T



Front Panel



Application

- Articial Intelligence
- Machine Learning
- HPC
- Virtualization

GPU server

		2U4G-ROME/2T AMD EPYC
System Physical Status	Form Factor	2U Rackmount
	Chassis Model	2U4G-ROME/2T
	Chassis Dimension	438 x 795 x 87.5 mm (without ear)
	Support MB Size	ATX, 12"x9.6"(ROMED8QM-2T)
CPU		Single Socket SP3(LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
Memory		8 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)
External Drive Bay	Front	4 x 2.5" SATA 6GB/s HDDs (1 x SATA3 HDD could support NVMe or SATA3 6GB/s HDDs) + 1 x NVMe
Front Panel	Buttons	Power Button, UID Button
	LEDs	System LED, UID LED, Power LED, 2 x LAN LEDs (L1 , L2 LED)
	I/O Port	2 x USB 2.0 Ports
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	2000W, Platinum
System Cooling	Fan	6 x 80*38mm System Fans

AMD EPYC

2U4G-EPYC-2T

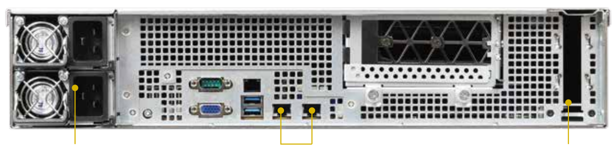
2U4G-EPYC

EPYC Series 7000 | DDR4 2666 | 10G 10Gbase-T

Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization

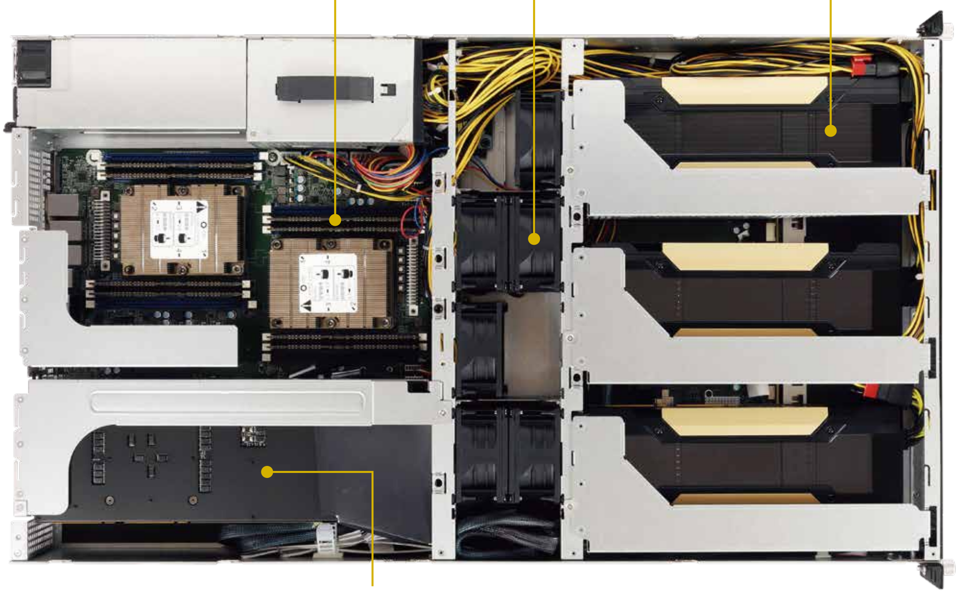
Front Panel



		2U4G-EPYC-2T (AMD EPYC)	2U4G-EPYC (AMD EPYC)
System Physical Status	Form Factor	2U Rackmount	2U Rackmount
	Chassis Dimension	438 x 795 x 87.5 mm (without ear)	438 x 795 x 87.5 mm (without ear)
	Support MB Size	ATX, 12” x 9.6”	ATX, 12” x 9.6”
Front Control Panel	Buttons	Power Button, UID Button	Power Button, UID Button
	LEDs	System LED, UID LED, Power LED, 2 x LAN LEDs (L1 , L2 LED)	System LED, UID LED, Power LED, 2 x LAN LEDs (L1 , L2 LED)
	I/O Ports	2 x USB 2.0 Ports	2 x USB 2.0 Ports
MB Tray	VGA Port	1 x D-Sub	1 x D-Sub
	Serial Port	1 x COM Port	1 x COM Port
	USB 3.0 Port	2 Ports	2 Ports
	LAN Port	RJ45:2(10G)+1(IPMI)	RJ45:2(1G)+1(IPMI)
	UID	1	1
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	
Power Supply	Capacity	1+1 Redundant	1+1 Redundant
	Output Watts	2000W, Platinum	2000W, Platinum
System Cooling	Fan	6 x 80*38mm System Fans	6 x 80*38mm System Fans

2U4G-C621WS

Xeon Scalable 3647 | NVIDIA TESLA | Workstation



High Performance Dual Intel Xeon Scalable Enterprise Tower Workstation

Application

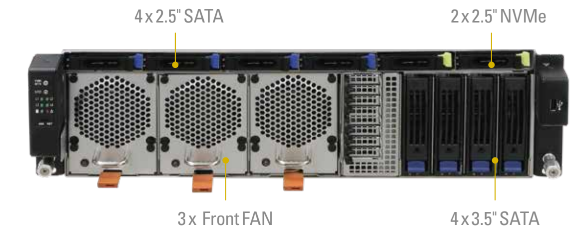
- Graphics-intensive Applications
- 3D/Video Rendering/Drafting

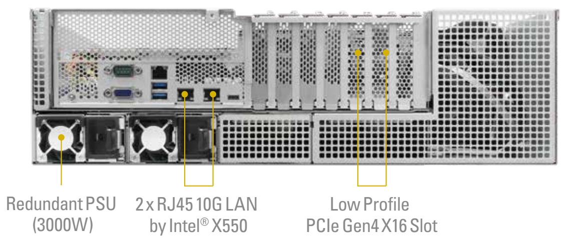
		2U4G-C621WS
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	438x 795x 87.5 mm
	Support MB Size	EEB, 12''x 13" (EP2C621D12 WS)
Front Panel	Buttons	Power button
		UID button
	LEDs	System LED, UID, PWR, LAN1, LAN2
		UID LED
		PWR LED
		LAN1, LAN2 LED
	I/O Ports	2 x USB 2.0 ports
GPU Support	GPU card qty	4 x GPGPU x16 or 8 x GPGPU x8 (Max 300W per card)
Drive Bay	External	4 x2.5" SATA 6GB/s HDDs(1x SATA3 HDD could support NVME SSD or SATA3 6GB/s HDDs)
		1x NVME SSD
Ethernet	Interface	1000/100/10 Mbps
	LAN Controller	4x RJ45 by Marvell 88E1543
		4+1(IPMI) RJ45 Dedicated IPMI LAN port
Power Supply	Capacity	2(1+1), Redundant
	Output Watts	2000W, Platinum
System Cooling	Fan	6x 80*38 mm system fans

AMD EPYC

3U4X-ROME/2T

GPGPU | 10Gbase-T | NVIDIA HGX A100





Application

- Deep learning
- Big data analytics
- HPC
- Machine learning

		3U4X-ROME/2T AMD EPYC
System Physical Status	Form Factor	3U Rackmount
	Chassis Model	3U4X
	Chassis Dimension	870 mm X 438 mm X 132.5 mm (L/W/H, w/o Front Ear)
	Support MB Size	ATX, 12"x9.6"(ROMED8-2T)
CPU		Single Socket SP3(LGA4094), supports AMD EPYC™ 7002 and 7003 Series Processors
System Memory		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 button, Reset button, NMI button, UID button
	LEDs	System fault LED, HDD activity LED
	I/O Port	1 x USB3.1 Ports
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550
		1 x RJ45 Dedicated IPMI LAN port
External Drive Bay	Front Side Drive Bay	4 x 2.5" SATA + 2 x NVMe + 4 x 3.5" SATA
Power Supply	Capacity	2 (1+1), Redundant
	Output Watts	3000W
	Efficiency	Platinum

GPU server

3U8G+/C621

GPGPU

NVIDIA TESLA

3647

Application

- GPU Server
- 3D Rendering
- Cloud Computing
- Virtualization
- Visualization Analysis and Design

		3U8G+/C621
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	722.3 x 430 x 170.35 mm
	Support MB Size	CEB, 12''x10.5" (EP2C621D16GM)
Front Panel	Buttons	Power On button, UID button, System reset button, NMI button
	LEDs	HDD Activity LED, System event LED, 2 x Front LEDs, 2 x LAN LEDs (L1 , L2 , LED)
	I/O Ports	2 x USB 2.0 ports, 1x VGA port
Storage	Front side	6 Bay 2.5" SATA HDD (6Gb/s) or 6 x SAS (12Gb/s)
System cooling	Fan	8 x 80*38 mm system fans
GPU support	GPGPU Watts	Max 300w /per card
	Support GPGPU	8 x GPGPU card or 8 x GPGPU/MIC
Power Supply	Capacity	4 (3+1), Redundant CPRS PSU
	Output Watts	1200W
	Efficiency	Platinum
Switch Board	Switch IC	PLX8747 x 4
	Input Connector	Card edge golden finger x2 for PDBMicro card
Additional PCIe switch		Front Right Angle 2 x16 finger each CPU to Midplane, total 4 x16 (need to bundle with ASRock Rack system board)

- Compatible Mezzanine Lan Card: M350R. M599R, MX710R

3U8G+/C621GM2

Storage

GPGPU

Application

- GPU Server
- 3D Rendering
- Cloud Computing
- Virtualization
- Visualization Analysis and Design

		3U8G+/C621GM2
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	722.3mm X 430mm X 170.35 mm
	Support MB Size	EP2C621D16GM2(EEB, 12'' x 13'')
Front Panel	Buttons	Power On Button, UID, Reset, NMI, System Reset Button
	LEDs	HDD Acitivity LED, System event LED, 2 x Front LEDs, 2 x LAN LEDs (L1, L2, LED)
	I/O Port	2 x USB 3.0 ports, 1 x VGA port
Storage	External	6 Bay 2.5"SATA HDD (6Gb/s) or 6 x SAS (12Gb/s)
System Cooling	Fan	8 x 80*38 mm system Fans
GPU support	GPGPU watts	Max 300W/per card
	Support GPGPU	8 x GPGPU card or 8 x GPGPU/MIC
Power Supply	Capacity	4 (3+1), Redundant
	Output Watts	1200W
	Ef ciency	Platinum
Switch board	Switch IC	PLX8747 x 4
	Input Connector	Card edge golden finger x2 foe PDBMicro card
Additional PCIe switch	Switch IC	Front Right Angle 2x16 finger each CPU to midplane, total 4x16 (need to bundle with ASRock Rack system board)

3U10G-F/C621

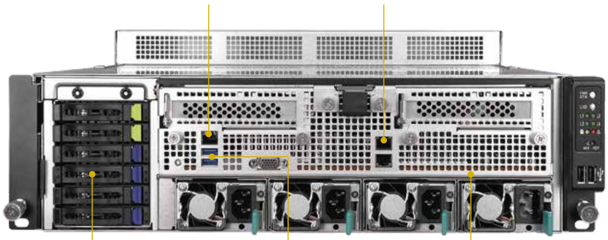
GPGPU

NVIDIA TESLA

3647

Application

- Deep Machine Learning & VDI
- Artificial Intelligence
- Big Data Analytic Applications
- Scale-out HPC Platform
- Parallel Computing



		3U10G-F/C621
System Physical Status	Form Factor	3U Rackmount
	Chassis Dimension	711mm X 430mm X 177.8mm
	Support MB Size	CEB, 12''x10.5" (EP2C621D16GM)
Front Panel	Buttons	Power On button, UID button, System reset button, NMI button
	LEDs	HDD Activity LED, System event LED, 2 x Front LEDs, 2 x LAN LEDs (L1 , L2 , LED)
	I/O Ports	2 x USB 2.0 ports
Storage	Front side	6 Bay 2.5" SATA/SAS HDD (including 2 x NVME support (Cable optional*))
System cooling	Fan	9 x 80*38 mm system fans (4 center + 5 rear)
GPU support	GPGPU Watts	Max 300w /per card
	Support GPGPU	10 x GPGPU/MIC card
Power Supply	Capacity	4 (3+1), Redundant CPRS PSU
	Output Watts	1600W
	Efficiency	Platinum
Switch Board	Switch IC	- PLX 8796 x 2
	Topology	-Single Root Topology
		-Micro card connector vertical(80pin) x4 for IPB
Additional PCIe switch		Front Right Angle 2 x16 finger each CPU to Midplane, total 4 x16
		(need to bundle with ASRock Rack system board)

- Compatible Mezzanine Lan Card: M350R, M599R. MX710R

AMD EPYC

4U4G-EPYCD8-2T

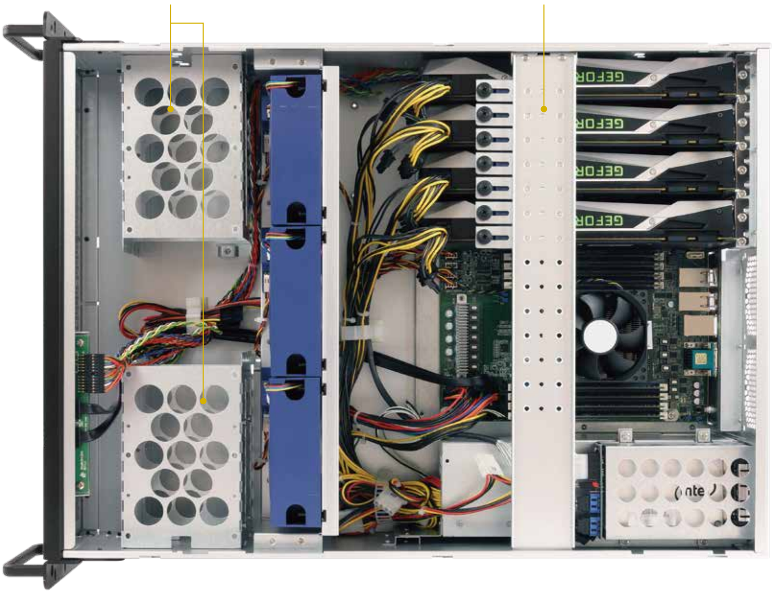
DDR4 3200

3200

4 Dual Slot PCIe x16

10G

10Gbase-T



Application

- Deep Learning
- Data Processing
- Mainstream Workstation

GPU server

		4U4G-EPYCD8-2T AMD EPYC
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	525x 430 x 174.8mm (20.7" x 16.9" x 6.9")
	Support MB	EPYCD8-2T
CPU		Socket SP3 (LGA4094), supports AMD EPYC™ 7002/7001 Series Processors
Memory	Capacity	8 DIMM Slots (1DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Expansion Slots	Rear	7 PCIe3.0 x16 single slot, supports 4 FHFL dual slot GPU cards
Storage	External	2 Hot-swap 2.5" SFF bays at rear
	Internal	8 internal 3.5"" LFF bay at front
		2 M.2 (PCIe3.0x4 or SATA 6Gb/s)
Rear IO	RJ45	2 10GbE via X550-AT2, 1 Dedicated IPMI
	Others	2 USB3.2 Gen1, 1DB15 (VGA), 1 DB9 (COM)
Front Panel	Buttons	Power switch, System reset
	LEDs	Power status, HDD, LAN activity LEDs
	I/O Port	2 USB 2.0
Power Supply	Capacity	1+1 Platinum 1600W CRPS
System Cooling	Fan	3 Hot-swap 12038 PWM fans
		2 external 8038 fans (optional)

AMD EPYC

4U8G-ROME2/2T

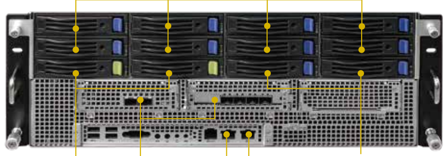
4U10G-ROME2/2T

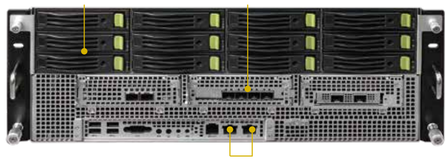
GPGPU

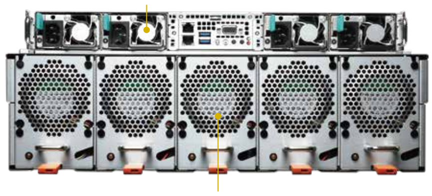
10Gbase-T

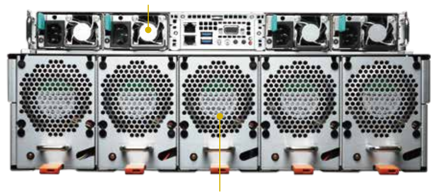
Application

- Deep learning
- Big data analytics
- HPC
- Machine learning









		4U8G-ROME2/2T AMD EPYC	4U10G-ROME2/2T AMD EPYC
System Physical Status	Form Factor	4U Rackmount	4U Rackmount
	Chassis Model	4U8G	4U10G
	Chassis Dimension	845mm*438mm*176.5mm (33.3"" x 17.2"" x 6.95"") (D/W/H, w/o Front Panel) (with Rear FAN)"	845mm*438mm*176.5mm (33.3"" x 17.2"" x 6.95"") (D/W/H, w/o Front Panel) (with Rear FAN)
	Support MB Size	SSI EEB 12'' x 13''(ROME2D32GM-2T)	SSI EEB 12'' x 13''(ROME2D32GM-2T)
CPU		Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors	Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 and 7003 Series Processors
System Memory		32 DIMM Slots, Supports Eight-Channel DDR4 3200/2933 R DIMM (Modules up to 64GB Supported), and LR DIMM (Modules up to 256GB Supported)	32 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 button, Reset button, NMI button, UID button	Power button, Reset button, NMI button, UID button
	LEDs	System fault LED, HDD activity LED	System fault LED, HDD activity LED
	I/O Port	2 x USB3.1 Ports	2 x USB3.1 Ports
Ethernet	Interface	10000/1000/100/10 Mbps	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port	2 x RJ45 10GLAN by Intel® X550 1 x RJ45 Dedicated IPMI LAN port
External Drive Bay	Front Side Drive Bay	1. 2 x 3.5" HDD Trays (for 2.5" PCIe x4 NVMe) 2. 2 x 3.5" HDD Trays (for 2.5" PCIe x4 NVMe, share with PCIe x8 slot) 3. 8 x 3.5" HDD Trays (for optional SAS/SATA RAID/HBA card)	12 x 3.5" HDD Trays supporting 3.5" SATA or 2.5" NVMe
Power Supply	Capacity	4 (3+1), Redundant	4 (3+1), Redundant
	Output Watts	1600W	1600W
	Efficiency	Platinum	Platinum

4U8G-ICX2/2T

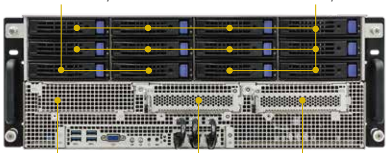
4U10G-ICX2/2T

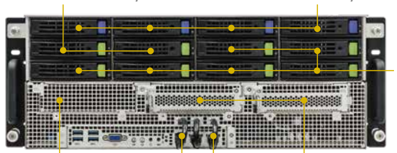
PCI-E 4.0

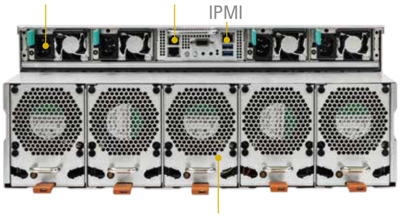
10Gbase-T

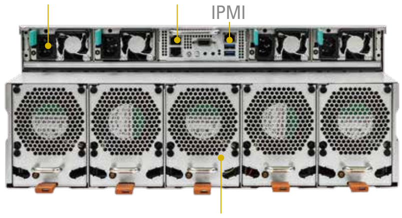
Application

- AI Training
- Big Data Analytics
- HPC
- Rendering
- VDI









		4U8G-ICX2/2T	4U10G-ICX2/2T
CPU	Socket	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors	1+1 Socket P+ (LGA4189) for 3rd Gen Intel® Xeon® Scalable Processors
DIMM	Slot	16+16 DDR4 288-pin (2DPC)	16+16 DDR4 288-pin (2DPC)
System Physical Status	Form Factor Chassis Dimension	4U Rackmount 845 x 438 x 176.5 mm (33.27'' x 17.24'' x 6.95'')	4U Rackmount 845 x 438 x 176.5 mm (33.27'' x 17.24'' x 6.95'')
Front Panel	Buttons LEDs I/O	Power button w/ LED, Reset button, NMI button, UID button w/ LED System fault LED, HDD activity LED 2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO 4 USB3.2 Gen1 ports 1 DB15 (VGA)	Power button w/ LED, Reset button, NMI button, UID button w/ LED System fault LED, HDD activity LED 2 RJ45 (10GbE) by Intel® X710-AT2, shares with Rear IO 4 USB3.2 Gen1 ports 1 DB15 (VGA)
Rear IO	RJ45 Others	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel	2 RJ45 (10GbE) by Intel® X710-AT2, shares with Front Panel UID button w/ LED, Power button w/ LED, Reset button, NMI button, System fault LED, HDD activity LED, 1 DB15 (VGA) 1 dedicated IPMI, shares with Front Panel
Expansion Slots	Front Rear	1 FH PCIe3.0 x4 [PCH] 1 FH PCIe3.0 x4 [PCH] Note1 1 OCP3.0 PCIe3.0 x4 [PCH] Note2 (optional) 4 FH dual-slot PCIe4.0 x16 [CPU0] 4 FH dual-slot PCIe4.0 x16 [CPU1]	1 FH PCIe4.0 x16 [CPU0] 1 FH PCIe4.0 x16 [CPU1] 1 OCP3.0 PCIe4.0 x16 [CPU1] 5 FH dual-slot PCIe4.0 x16 or 10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU0] 5 FH dual-slot PCIe4.0 x16 or 10 FH single-slot PCIe4.0 x8 [PEX88096 PCIe switch connect to CPU1] 1 FH single-slot PCIe4.0 x16 [CPU1]
Drive Bay/ Storage	External Internal	2 Hot-swap 3.5'' SATA drive bays 10 Hot-swap 3.5'' drive bays Note3 2 M-key Note1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]	6 Hot-swap 3.5'' NVMe drive bays 4 Hot-swap 3.5'' SATA drive bays 2 Hot-swap 3.5'' SATA/NVMe drive bays 2 M-key Note1 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	3+1 Platinum 1600W CRPS	3+1 Platinum 1600W CRPS
System Cooling	Fan	5 Middle Hot-swap 80 x 80 mm fans 5 Rear Hot-swap 80 x 38 mm fans	5 Middle Hot-swap 80 x 80 mm fans 5 Rear Hot-swap 80 x 38 mm fans
Management		ASPEED BMC AST2500	ASPEED BMC AST2500
Security		TPM by optional accessory	TPM by optional accessory

Note1: 1 FH PCIe3.0 x4 will be disabled when M2_2 is populated
Note2: Supports 1 OCP3.0 PCIe3.0 x4 possible by cable reconfiguration
Note3: Please contact ASRock Rack if additional 10 Hot-swap 3.5'' drive bays need to be supported

AMD EPYC

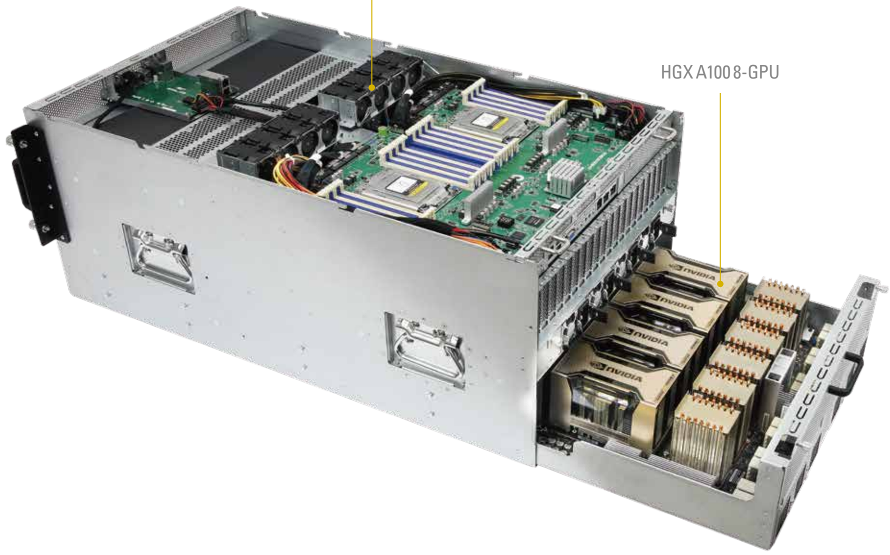
7U8X-ROME2/2T

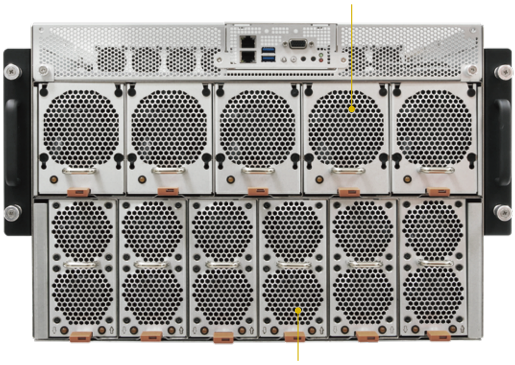
GPGPU

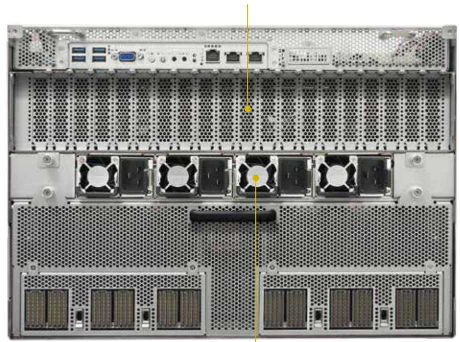
10Gbase-T

NVIDIA
HGX A100

Deep Learning







Application

- Deep learning
- Big data analytics
- HPC
- Machine learning

GPU server

		7U8X-ROME2/2T AMD EPYC
System Physical Status	Form Factor	7U Rackmount
	Chassis Model	7U8X-ROME2
	Chassis Dimension	782mm x 430mm x 307mm (30.8" x 17" x 12.1")
	Support MB Size	Proprietary, 16.5" x 13.81"(ROME2D32GM-2T)
CPU		Daul Socket SP3(LGA4094) Supports AMD EPYC™ 7002 Series Processors
System Memory		16+16 DIMM Slots (2DPC); Supports DDR4 R-DIMM up to 3200MHz, 64GB/ LR-DIMM up to 3200MHz, 256GB
Front Panel	Buttons	Power On Button, UID, NMI, System Reset Button
	LEDs	Power LED, UID LED, HDD LED, System LED
	I/O Ports	2 x USB 3.0 Port, 2 x LAN Port(RJ45 10GbE), 1 x VGA Port
Ethernet	Interface	10000/1000/100/10 Mbps
	LAN Controller	2 x RJ45 10GLAN by Intel® X550
		1 x RJ45 Dedicated IPMI LAN port
Storage		16 x NVMe SSD (AIC type)
Power Supply	Capacity	4(3+1), Redundant CRPS PSU
	Output Watts	3000W
	Efciency	Platinum
System Cooling	Fan	8 x 40*56 mm PWM systems fans
		5 x 80*80 mm PWM systems fans
		12 x 60*76 mm PWM systems fans

RM237-C622LM2

DDR4 2666 — 2666

Xeon Scalable — 3647

1U/2U High Density Storage

SAS3 12Gb/s

L shape

Storage Mezzanine Optimized

Application

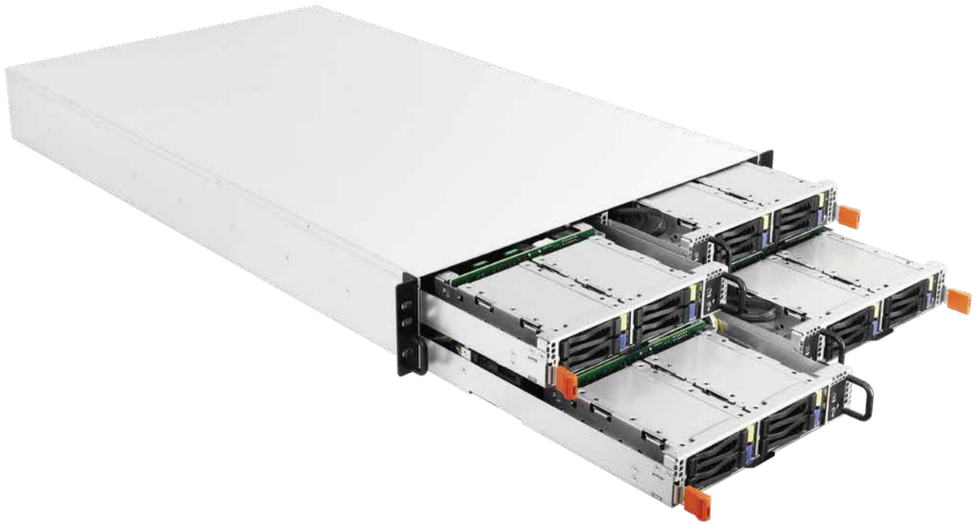
- Enterprise Mission Critical Application
- Virtualization Storage Server

		RM237-C622LM2
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	735mm x 438mm x 87mm
	Support MB Size	L shape, 16.7" x17" inch (EP2C622D24LM2)
Front Panel	Buttons	Power On button, UID button, System reset button
	LEDs	HDD Activity LED, System Status LED
	I/O Port	1 x USB 2.0 port, 1 x USB 3.0 port, 1 x VGA port
Storage	External	12 x 3.5" SATA HDD/12 x 3.5" SAS HDD (with RAID/HBA card)
	Rear Side	2 x 2.5" SATA HDD/2 x 2.5" SAS HDD (with RAID/HBA card)
System Cooling	Fan	6 x 60*38 mm PWM systems fans (Hot-swap)
Power Supply	Capacity	2 (1+1), Redundant CPRS PSU
	Output Watts	1600W
	Efficiency	Platinum

2U4N-F/C622

2U4N-F/C621-M3

2U4N-F/C621AB



Xeon Scalable
3647

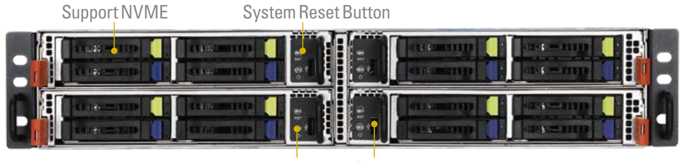
DDR4 2666
2666

1U/2U High Density Storage

High Performance and High-density Computing Nodes for HPC, Cloud Computing, Internet Security and Science

Support NVME

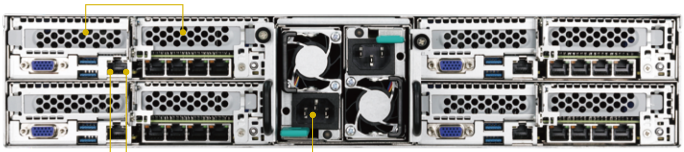
System Reset Button



Power on/ Stand by Button

USB 2.0

2 X PCIE x16 (LP)



OCP2 LAN / OCP3 LAN

IPMI LAN

PSU 1600 W (1+1)

Multi-node

		2U4N-F/C622	2U4N-F/C621-M3	2U4N-F/C621AB
System Physical Status	Form Factor	2U Rackmount	2U Rackmount	2U Rackmount
	Chassis Dimension	750mm X 448mm X 86mm	778mm X 448mm X 86mm	750mm X 448mm X 86mm
	Support MB Size	EP2C622D16HM-C (Half, 20"x6.5'')	EP2C621D16HM2-M3(Half, 20"x6.5'')	EP2C621D16HM-AB (Half, 20"x6.5'')
Front Panel	Buttons	Power On Button, System Reset Button, UID(rear)	Power On Button, System Reset Button, UID(rear)	Power On Button, System Reset Button, UID(rear)
	LEDs	POWER HDD LED, UID LEDs(per node)	POWER HDD LED, UID LEDs(per node)	POWER HDD LED, UID LEDs(per node)
	I/O Port	1 x USB 2.0 ports(per node)	1 x USB 2.0 ports(per node)	1 x USB 2.0 ports(per node)
Storage	External	4x 2.5" HDD/SSD per node (all SATA or 2 x NVME* + 2 x SATA)	4x 2.5" HDD/SSD per node (all SATA or 2 x NVME* + 2 x SATA)	4x 2.5" HDD/SSD per node (all SATA or 2 x NVME* + 2 x SATA)
System Cooling	Fan	16 x 40*56 mm PWM Easy-Swap Fans	16 x 40*56 mm PWM Easy-Swap Fans	16 x 40*56 mm PWM Easy-Swap Fans
Power Supply	Capacity	2 (1+1), Redundant	2 (1+1), Redundant	2 (1+1), Redundant
	Output Watts	1600W	1600W	1600W
	Efficiency	Platinum	Platinum	Platinum

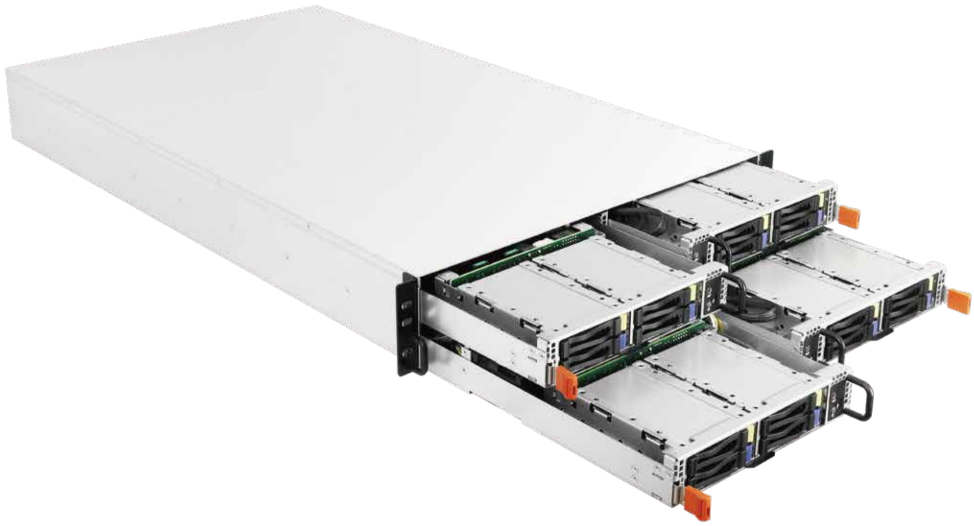
AMD EPYC

2U4N-F/ROME-M3

DDR4 3200 — 3200

10G — 10Gbase-T

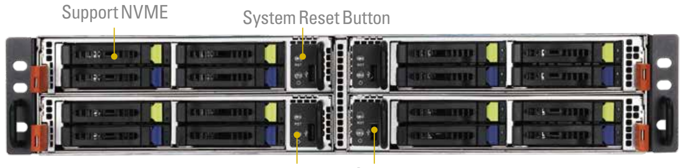
OCP NIC 3.0 — OCP NIC 3.0



High Performance and High-density Computing Nodes for HPC, Cloud Computing, Internet Security and Science

Support NVME

System Reset Button

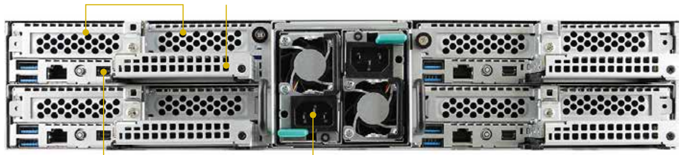


Power on/ Stand by Button

USB 2.0

2 X PCIE x16 (LP)

OCP 3.0 mezzanine card location



Mini Display port

PSU 1600 W (1+1)

		2U4N-F/ROME-M3 AMD EPYC
System Physical Status	Form Factor Chassis Model Chassis Dimension Support MB Size	2U Rackmount 2U4N-F 778 x 448 x 86mm Half-Width (20"x6.5")(ROMED8HM3 x 4)
CPU		Single Socket SP3(LGA4094), supports AMD EPYC™ 7002 and 7003 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 LEDs I/O Port	Power On/Standby Button (Per Node) in the Front System Reset Button (Per Node) in the Front UID Button (per Node) in the Rear HDD Act/Err/Locate LED Power LED (Front Panel Per Node) UID LED (Front Panel Per Node) 1 x USB 2.0 Port (Per Node)
MB Per Node	USB 3.1 Gen 1 VGA LAN Port	2 1 x Mini DisplayPort (need to bundle ASRockRack special cable for VGA) RJ45: 1(IPMI) LAN Ports with LED (ACT/LINK LED and SPEED LED)
Expansion slot	PCIe3.0 x16 OCP Mezzanine 3.0 M.2	2 Slots (Low Prole Card) 1 Slot 2 Slots (SATA/PCIe 4.0 x4, 2280/22110/30110)
Drive Bay	External	4 x 2.5" HDD/SSD per node (all SATA or 2 x NVME* + 2 x SATA)
Power Supply	Output Watts Efficiency	2 (1+1) 1600W Redundant Platinum
System Cooling Per Node	Fan	4 x 40*56mm Fans

3U16N

3U16N-C242

3U16N-EPYC3251

SOC

10Gbase-T

1U/2U High Density Storage

1U/2U High Density Computes

Up to 16 of EPYC3000 Nodes for HPC Platform, Parallel Computing with Multi-Roots(Shared I/O Interface) to 200G Optical Network

MB: EPYC3251D4Y

4 x 1200W PSU (3+1 Redundant)

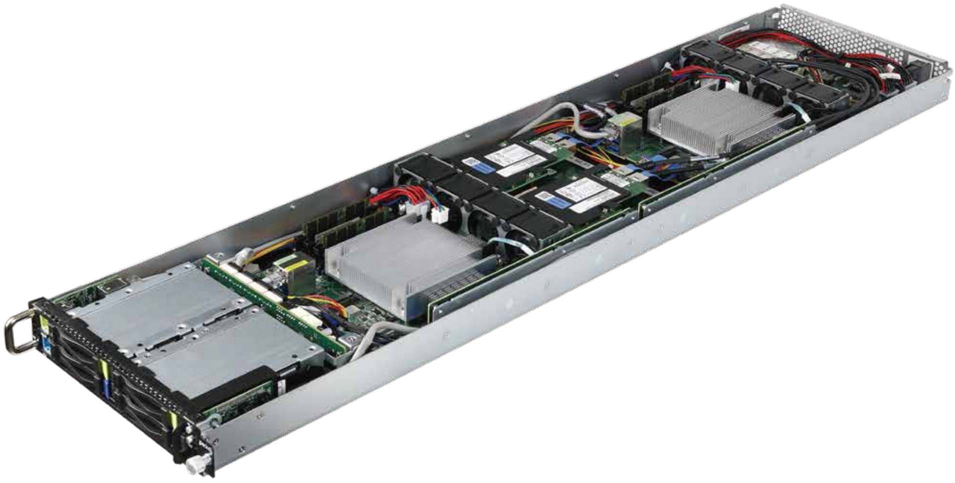
Multi-node

		3U16N	3U16N-C242	3U16N-EPYC3251
System Physical Status	Form Factor	3U Rackmount	3U Rackmount	3U Rackmount
	Chassis Dimension	723.5mm X 430mm X 130.35mm (28'' x 17.5'' x 5.1'')	742.1 x444.6x 130.35mm	742.1 x444.6x 130.35mm
	Support MB Size	Half-width,12.3 "x 4.4” (D1541D4Y)	Half-Width, 12.7" x 4.4"(E3C242D2Y)	Half-Width, 12.7" x 4.4"(EPYC3251D4Y)
Front Panel	Buttons	Power Button, UID Button(per Node)	Power, UID	Power, UID
	LEDs	N/A	Power, UID	Power, UID
	I/O Port	2 x USB3.0 port(per Node)	1x Mini IO Port(per node), 2x RJ45 GLAN(per node)	1 x HDMI port (need to bundle ASRockRack special cable for USB2x2 and Management LAN) 1 x mini Display port (need to bundle ASRockRack special cable for VGA)
Storage	External	N/A	2x M.2 (support SATA and PCIE Gen3 X4) Per Node	2*M.2(2280/22110, Supports PCIe 3.0(x4)/ SATA6.0Gb/s) Per Node
	internal	16x 2.5" SATA / NVMe SSD	N/A	N/A
System Cooling	Fan	8 x 80*38 mm system fans	4 x 80*38 mm system fans	4 x 80*38 mm system fans
Power Supply	Capacity	4(3+1)Redundant	4(3+1) Redundant	4(3+1) Redundant
	Output Watts	750W	1200W	1200W
	Efficiency	Platinum	Platinum	Platinum

1U-Open19-c3.small.x86

10Gbase-T

2666



		1U-Open19-c3.small.x86
System	Form Factor	1U Rackmount
	Chassis Model	Open19 chassis
	Dimensions	901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
	Support MB	mini-ITX, 170.18mm(L) x 170.18mm(W) (E3C246D4I-NL x2; 2 Nodes)
	Node number	2
Front Panel	Buttons	Power button (2 ;1pc/per node)
External Drive Bay / Storage	Front Side Drive Bay	4x 2.5" SATA3 HDD/SSD (Green: from Node1, Blue: from Node2)
Power Supply	Type	NA, 12V DC-IN Port
System Fan	Fan	8 x system fans (4028 fan, 4pcs per node, support Cold Redundant)
Key part	CPU(SoC)	Intel® E-2278G per node, 2pcs per brick
	DIMM	DDR4 2666 ECC SO-DIMM 16Gx2 per node, 4pcs per brick
	LAN Card	Intel® X710 2x10G (per node) ; 2 pcs per brick
	SSD	Intel® 2.5'' SATA3 SSD S4510 480G x 2 (per node); 4pcs per brick
Processor System	CPU	Intel® Xeon® E-2100 Processors; default Intel® E-2278G per node
System Memory	Capacity	Supports DDR4 2666/2400 ECC/non-ECC U SO-DIMM, max. 64 GB; default DDR4 2666 ECC SO-DIMM 16Gx2 per node, 4pcs per brick

AMD EPYC

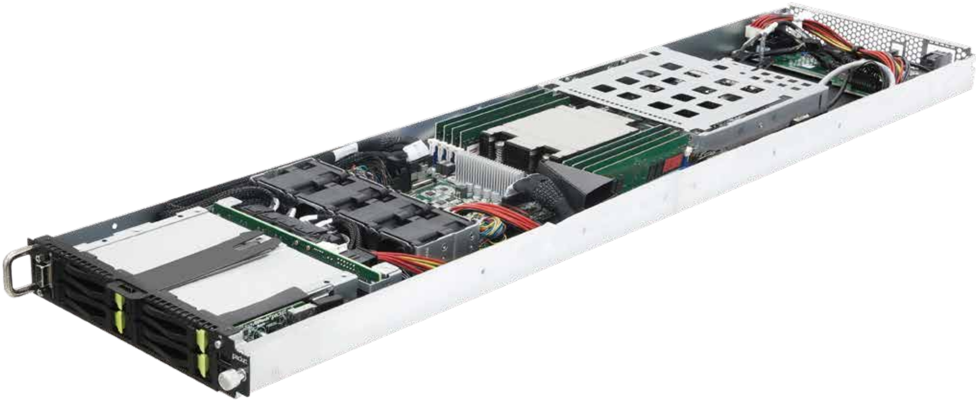
1U-Open19-m3.large.x86

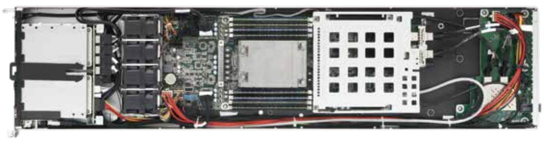
25G

25Gbase-T

DDR4 3200

3200





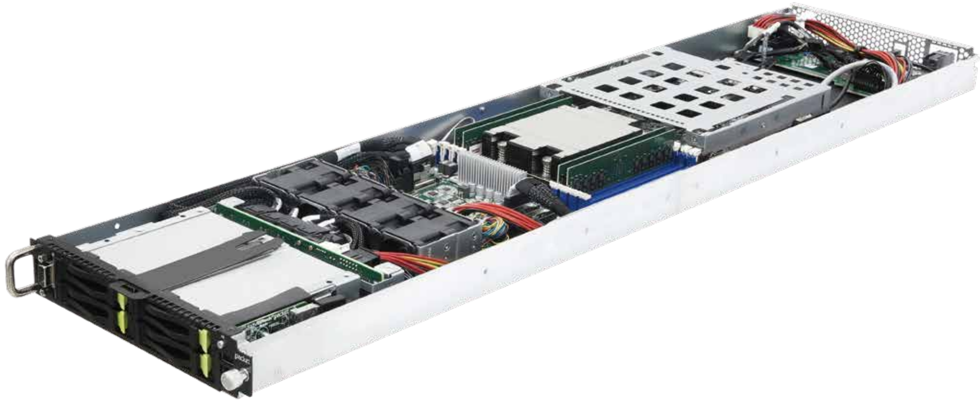
		1U-Open19-m3.large.x86 AMD EPYC
System	Form Factor	1U Rackmount
	Chassis Model	Open19 chassis
	Dimensions	901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
	Support MB	Half width, 6.5'' × 17'' (ROMED8HM3/N19)
	Node number	1
Front Panel	Buttons	Power button
Rear IO	USB 3.0	1
	VGA	1
Rear Panel	4 Port SFP28 Ethernet	1 Open19 Standard Data Connector
	12V DC-IN Port	1
External Drive Bay / Storage	Front Side Drive Bay	4 x 2.5" SATA3 HDD/SSD or 4 x NVME
Power Supply	Type	NA, 12V DC-IN Port
System Fan	Fan	4 x system fans (PF 4056 1BX)
Key part	CPU(SoC)	AMD 7502P 32C/64T, 2.5GHz
	DIMM	DDR4 3200 ECC RDIMM 32GB x 8
	LAN Card	2 x 25GbE, Broadcom N225 for OCP 3.0
	SSD	2 x 2.5'' SATA3 SSD Intel® S4510 240G
		2 x U.2 2.5'' PCIE3 NVMe SSD (MICRON 3.84TB)
Processor System	CPU	Supports AMD EPYC™ 7002 and 7003 series processors
System Memory	Capacity	Eight-Channel DDR4 3200/2933/2666 RDIMM, LRDIMM, max. 512GB (RDIMM), 1024GB(LRDIMM); default DDR4 2666 ECC RDIMM 16GB x4

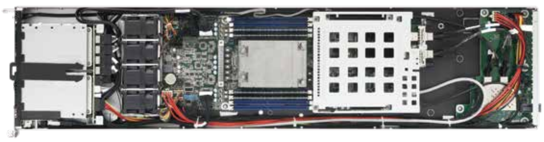
AMD EPYC

1U-Open19-c3.medium.x86

10Gbase-T

2666





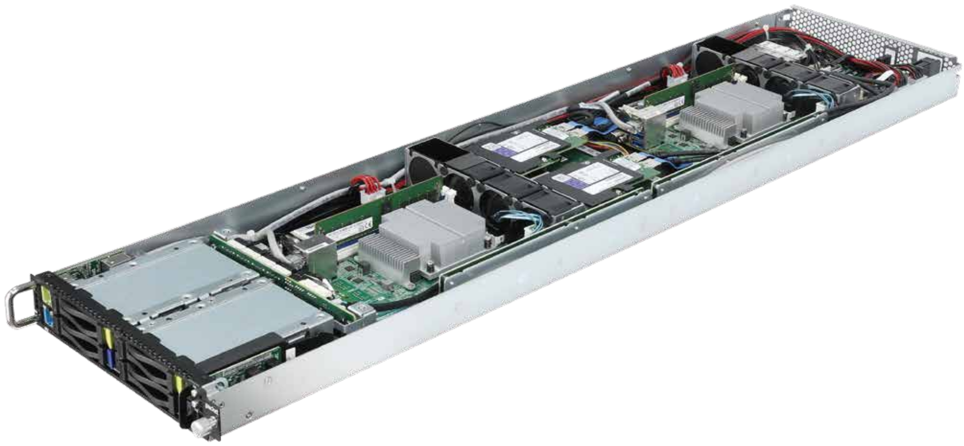
		1U-Open19-c3.medium.x86 AMD EPYC
System	Form Factor	1U Rackmount
	Chassis Model	Open19 chassis
	Dimensions	901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
	Support MB	Half width, 6.5'' × 17'' (ROMED8HM3/N19)
	Node number	1
Front Panel	Buttons	Power button
Rear IO	USB 3.0	1
	VGA	1
Rear Panel	4 Port SFP28 Ethernet	1 Open19 Standard Data Connector
	12V DC-IN Port	1
External Drive Bay / Storage	Front Side Drive Bay	4 x 2.5" SATA3 HDD/SSD or 4 x NVME
Power Supply	Type	NA, 12V DC-IN Port
System Fan	Fan	4 x system fans (PF 4056 1BX)
Key part	CPU(SoC)	AMD 7402P 24C/48T, 2.8GHz
	DIMM	DDR4 2666 ECC RDIMM 16GB x4
	LAN Card	2 x 10GbE, Intel® x710-DA2 for OCP 3.0
	SSD	2 x 2.5'' SATA3 SSD Intel® S4510 240G
		2 x 2.5'' SATA3 SSD Intel® S4510 480G
Processor System	CPU	AMD EPYC™ 7002/7001 series processor family; AMD 7402P 24C/48T, 2.8GHz (Default)
System Memory	Capacity	Eight-Channel DDR4 3200/2933/2666 RDIMM, LRDIMM, max. 512GB (RDIMM), 1024GB(LRDIMM); default DDR4 2666 ECC RDIMM 16GB x4

Open 19

1U-Open19-t3.small.x86

10Gbase-T

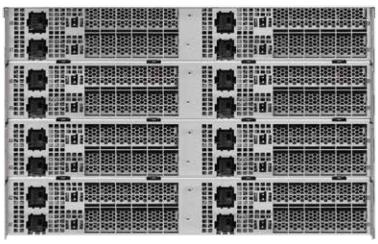
2666

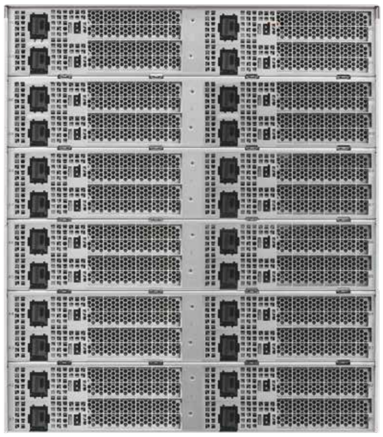


		1U-Open19-t3.small.x86
System	Form Factor	1U Rackmount
	Chassis Model	Open19 chassis
	Dimensions	901.7 mm x 212.3 mm x 41.65 mm (L/W/H, w/o ear)
	Support MB	mini-ITX, 170.18mm(L) x 170.18mm(W) (EPYC3151D4I-NL x2; 2 Nodes)
	Node number	2
Front Panel	Buttons	Power button (2 ;1pc/per node)
Rear Panel	4 Port SFP28 Ethernet	1 Open19 Standard Data Connector
	12V DC-IN Port	1
External Drive Bay / Storage	Front Side Drive Bay	4x 2.5" SATA3 HDD/SSD (Green: from Node1, Blue: from Node2)
Power Supply	Type	NA, 12V DC-IN Port
System Fan	Fan	6 x system fans (4028 fan, 3pcs per node, support Cold Redundant)
Key part	CPU(SoC)	AMD EPYC™ Embedded 3151 Processor (Per node) ; 2 pcs motherboard per brick
	DIMM	DDR4 2666 ECC RDIMM 16GB x2 (per node, one DIMM per channel); 4pcs per brick
	LAN Card	Intel® X710 2x10G (per node) ; 2 pcs per brick
	SSD	Intel® 2.5'' SATA3 SSD S4510 240G x 2 (per node); 4pcs per brick
Processor System	CPU	AMD EPYC™ Embedded 3151 Processor
System Memory	Capacity	Dual Channel DDR4 2666 ECC/UDIMM, RDIMM, LRDIMM, max 128G ; default DDR4 2666 ECC RDIMM 16GB x2 (dual channel)

8RU cage

12RU cage





		8RU cage	12RU cage
System	Form Factor	Open19 form factor	Open19 form factor
	Chassis Model	8RU cage, fixed divider wall	12 RU cage, fixed divider wall
	Dimensions	938.3mm x 482.1mm x 355mm (L/W/H, w/o ear)	938.6mm x 482.1mmx 533mm (L/W/H, w/o ear)

Reliable Server
Advancing Technology
Considerable Design
Knowledgeable Professional

ASRock Rack Incorporation

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