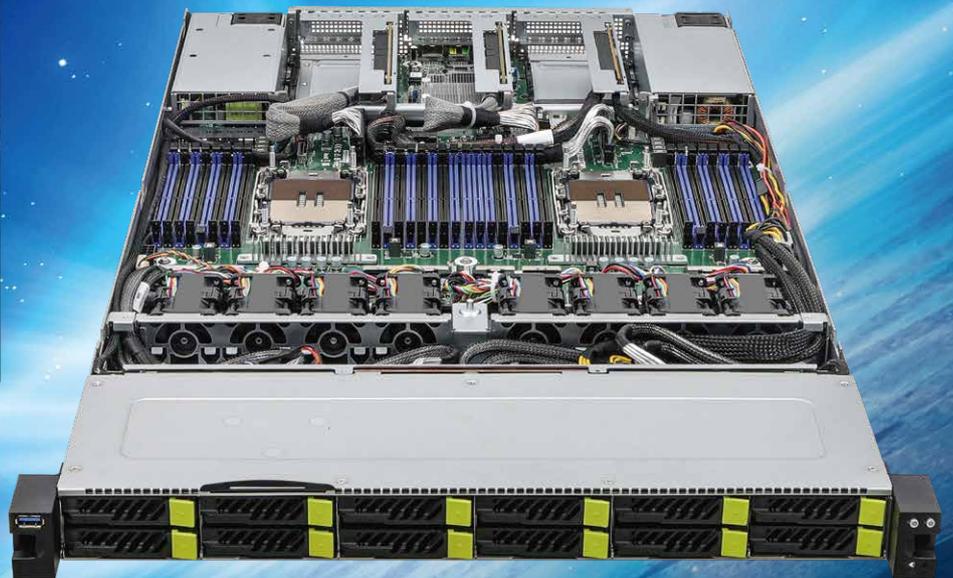


5th & 4th Gen Intel® Xeon® Scalable Processors

Leading Performance with the Most Built-in Accelerators

General Purpose Storage / All-flash NVMe / GPU / Multi-node Barebones Server Motherboards



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SERVER MOTHERBOARD		
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Server Platform Naming Rule

SP2C741D16NQM3-2Q

Character	Representation	Options
1 st ~ 2 nd	CPU Type	SP = 5 th & 4 th Gen Intel® Xeon® Scalable processors
3 rd	Number of CPU Supported	<ul style="list-style-type: none"> • 2 = Dual • NA = Single
4 th ~ 6 th	Chipset	C741 = Intel® C741 chipset
Others	Number of DIMM Supported	<ul style="list-style-type: none"> • D4 = 4 DIMM • D6 = 6 DIMM • D8 = 8 DIMM • D16 = 16 DIMM • D32 = 32 DIMM
	Form Factor	<ul style="list-style-type: none"> • H = Half-width • U = Micro-ATX • I = mini-ITX • L = L-shape • T = T-shape
	Feature	<ul style="list-style-type: none"> • N = Non-shading side-by-side CPU • G = For GPU server • Q = OCP slot not in standard I/O area, multi-SlimSAS to the front • M = OCP 2.0 slot • M3 = OCP NIC 3.0 slot • 2T = Dual 10GbE RJ45 • 2L = Dual 1GbE RJ45 • 2L+ = Dual 1GbE RJ45 • 2O = Dual 10G optical LAN (SFP+) • 2Q = Dual 25G optical LAN (SFP28)

1U8S4E-EGS/2T

Character	Representation	Options
1 st ~ 2 nd	System Height	<ul style="list-style-type: none"> • 1U = 1U chassis • 2U = 2U chassis • 4U = 4U chassis • 8U = 8U chassis • 10U = 10U chassis
Others	Drive Bay	<ul style="list-style-type: none"> • L = 3.5" HDD Bay • S = 2.5" HDD/SSD Bay • E = U.2 Bay
	Feature	<ul style="list-style-type: none"> • G = Dual-slot cards supported • N = Number of nodes • F = Front I/O, Front access • R = Rear access

1U4L-EGS/2T



10G

10Gbase-T

Storage

Storage

DDR5
4800

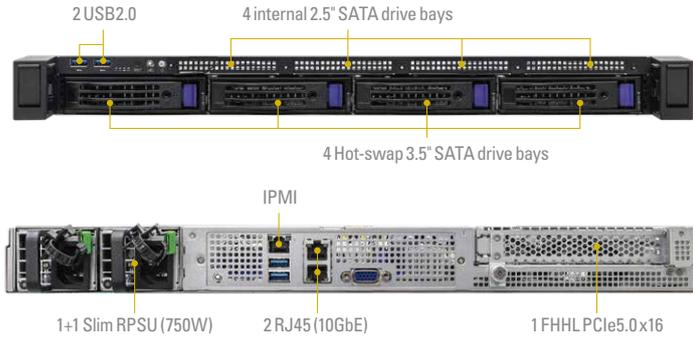
4800

PCI-E
5.0

PCI-E 5.0

Application

- Enterprise Server
- General Purpose Server
- Web Hosting



1U4L-EGS/2T

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB2.0)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0x16 via RB1UX16R_G5
Drive Bay/ Storage	External	4 Hot-swap 3.5" SATA drive bays
	Internal	1 M-key (PCIe3.0 x4); support 2280 form factor 4 Internal 2.5" SATA drive bays
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim RPSU
System Cooling	Fan	6 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

1U4L4E-EGS/2T



10Gbase-T



Storage



4800

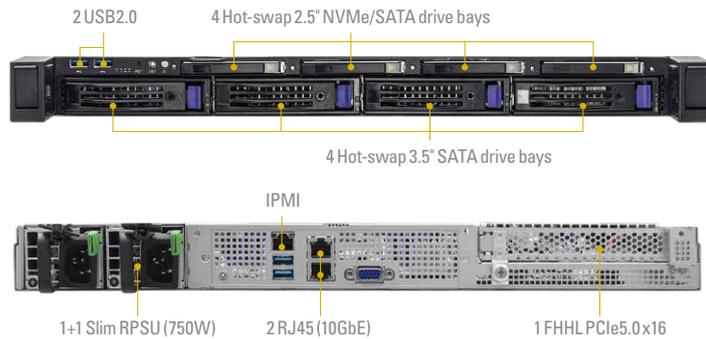


PCI-E 5.0



Application

- Hybrid-storage Server
- Cloud Computing
- Enterprise Server



1U4L4E-EGS/2T

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	2 Type-A (USB2.0)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays 4 Hot-swap 3.5" SATA drive bays
	Internal	1 M-key (PCIe3.0 x4); support 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim RPSU
System Cooling	Fan	6 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

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

1U8S4E-EGS/2T



10G

10Gbase-T

Storage

Storage

DDR5
4800

4800

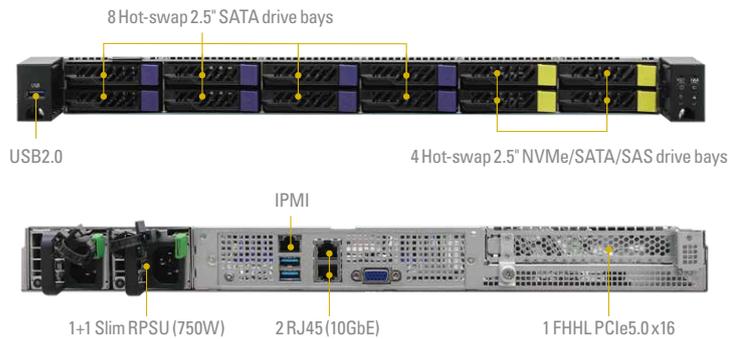
PCI-E
5.0

PCI-E 5.0



Application

- Hybrid-storage Server
- Enterprise Server



1U8S4E-EGS/2T

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.6" x 17.2" x 1.7")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	HDD Activity, LAN 1/2, System Event
	I/O	1 Type-A (USB2.0)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays 8 Hot-swap 2.5" SATA drive bays
	Internal	1 M-key (PCIe3.0 x4); support 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 750W Slim RPSU
System Cooling	Fan	6 PWM Easy-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

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

1U12L4E-EGS/2L2Q



OCP NIC 3.0



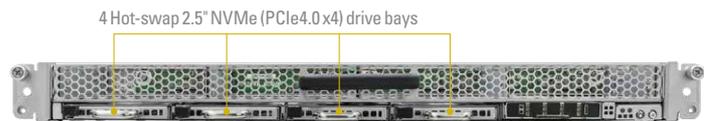
SFP28



Storage



PCI-E 5.0



Application

- Software-defined storage
- Cloud datacenter storage

1U12L4E-EGS/2L2Q

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	955 x 438 x 43.5 mm (37.6" x 17.24" x 1.71")
Front Panel	Buttons	Power Switch, ID Switch, System reset
	LEDs	Power status, UID, HDD activity, System Fault
Rear IO	LAN	2 SFP28 (25GbE) by Broadcom BCM57414 2 RJ45 (1GbE) by Intel® I350 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 COM port (via Type-C connector), 1 UID button
Expansion Slots	Rear	1 FHHL PCIe5.0x16 via RB1UX16R_G5 1 HHHL PCIe5.0x16 via RB1UX16L_G5 1 OCP NIC 3.0 (PCIe5.0x16)
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe4.0x4) drive bays
	Internal	12 Hot-swap 3.5" SATA HDD drive bays 1 M-key ^{Note1} (PCIe3.0x4 or SATA 6Gb/s); supports 22110/2280 form factor [PCH] 1 M-key ^{Note1} (PCIe3.0x2 or SATA 6Gb/s); supports 2280 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 1000W Slim RPSU
System Cooling	Fan	6 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

Note1: M2_2 share lanes with M2_1

1U1G-EGS/M3



GPGPU



10Gbase-T



OCP NIC 3.0

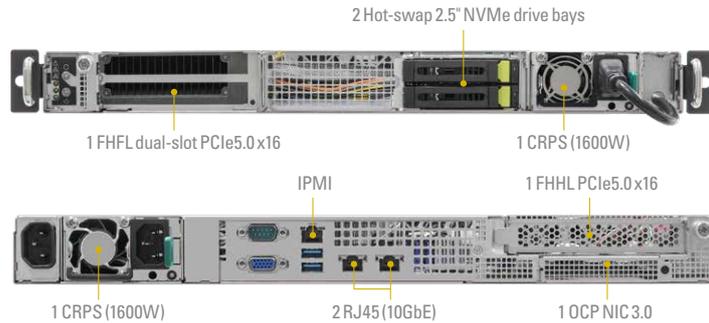


PCI-E 5.0



Application

- Visualization
- Rendering
- Virtualization
- Deep Learning



1U1G-EGS/M3

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	653.5 x 438.0 x 43.5 mm (25.73" x 17.24" x 1.71")
Front Panel	Buttons	Power button w/ LED, UID button w/ LED, System Reset
	LEDs	System Fault, LAN1/LAN2 Activity
Rear IO	I/O	2 Type-A (USB3.2 Gen1)
	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	Others	1 DB15 (VGA), 1 DB9 (COM)
Expansion Slots	Front	1 FHFL dual-slot PCIe5.0 x16
	Rear	1 FHHL PCIe5.0 x16 via RB1UX16R_G5 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage	External	2 Hot-swap 2.5" NVMe (PCIe4.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260 form factor [PCH] 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
Power Supply	Module	1+1, 1600W CRPS
System Cooling	Fan	6 PWM dual-rotor 40x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

2U4G8E-EGS2



GPGPU



PCI-E 5.0

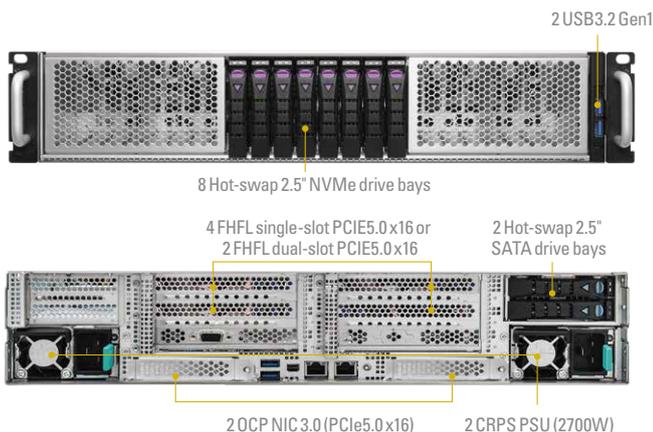


OCP NIC 3.0



Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization

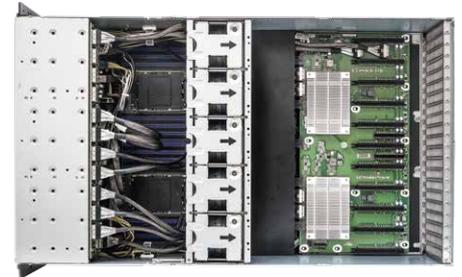
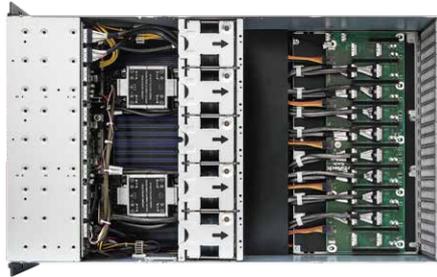


2U4G8E-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	800 x 438 x 87.3mm (31" x 17.2" x 3.44")
Front Panel	Buttons	Power w/ LED, ID w/ LED, System Reset
	LEDs	System fault
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	1 RJ45 (COM) 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 Mini-DP (DP/Mini-DP), 1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	4 FHFL single-slot PCIe5.0 x16 or 2 FHFL dual-slot PCIe5.0 x16 2 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0) drive bays 2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe4.0 x4), support 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 2700W CRPS PSU
System Cooling	Fan	6 PWM fixed 60x56 mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

4U8G-EGS2

4U10G-EGS2

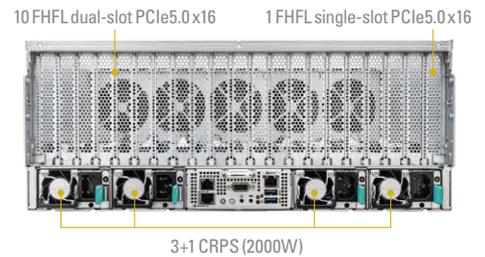
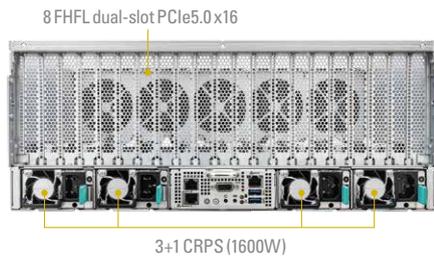
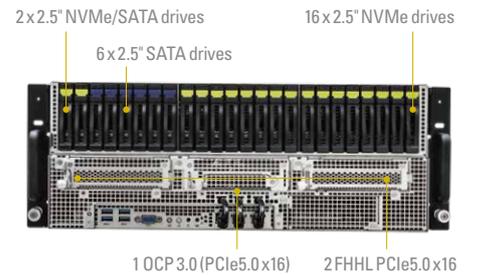
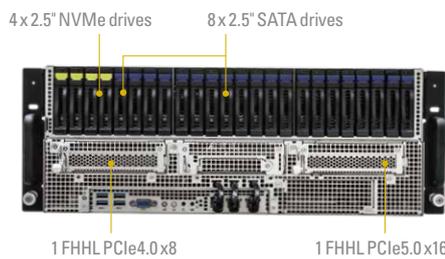


DDR5
4800
4800

PCI-E
5.0
PCI-E 5.0

GPGPU
GPGPU

OCP
NIC 3.0
OCP NIC 3.0



Application

- Deep Learning
- Big Data Analytics
- HPC
- Machine Learning

4U8G-EGS2

4U10G-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors	
DIMM	Slot	32 DDR5 288-pin (1DPC)	
System Physical Status	Form Factor	4U Rackmount	
	Chassis Dimension	786 x 438 x 176.5 mm (30.9" x 17.2" x 6.9")	
Front Panel	Buttons	Power w/ LED, Reset, NMI, UID	
	LEDs	System Fault LED, HDD Activity LED	
	I/O	2 RJ45 (1GbE) by Intel® i350-AM2	
		1 dedicated IPMI 4 Type-A (USB 3.2 Gen1)	
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel 1 dedicated IPMI, shares with front panel	
	USB	2 Type-A (USB 3.2 Gen1)	
	Others	1 DB15 (VGA), 1 UID w/ LED	
Expansion Slots	Front	1 FHHL PCIe 5.0 x16 1 FHHL PCIe 4.0 x8	2 FHHL PCIe 5.0 x16 1 OCP NIC 3.0 (PCIe 5.0 x16)
	Rear	8 FHFL dual-slot PCIe 5.0 x16	10 FHFL dual-slot PCIe 5.0 x16 1 FHFL single-slot PCIe 5.0 x16
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe 5.0 x4) drives, 8 Hot-swap 2.5" SATA drives or 24 Hot-swap 2.5" SATA/SAS ^{Note1} drives	2 Hot-swap 2.5" NVMe (PCIe 4.0 x4)/SATA drives, 6 Hot-swap 2.5" SATA drives, 16 Hot-swap 2.5" NVMe (PCIe 5.0 x4) drives or 24 Hot-swap 2.5" SATA/SAS ^{Note1} drives
	Internal	1 M-key (PCIe 3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor 1 M-key (PCIe 3.0 x4), supports 2280/22110 form factor	
Power Supply	Module	3+1, 80-Plus Platinum, 1600W CRPS	3+1, 80-Plus Platinum, 2000W CRPS
System Cooling	Fan	5 PWM Hot-swap 80x80 mm fans	
Management		ASPEED BMC AST2600	
Security		TPM by optional accessory	

6U8X-EGS2

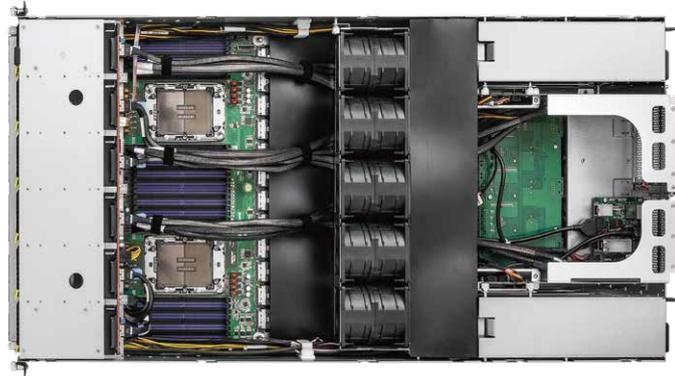


DDR5
4800
 4800

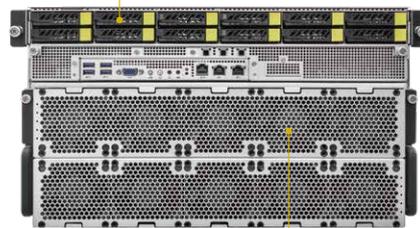
PCI-E
5.0
 PCI-E 5.0

GPGPU
 GPGPU

NVIDIA
HGX H100
 NVIDIA HGX H100

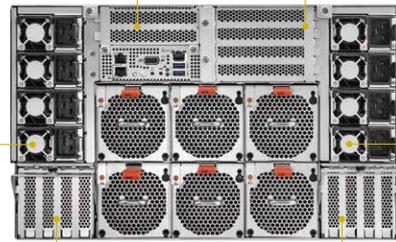


12x 2.5" NVMe (PCIe5.0x4) drive bays



NVIDIA HGX™ H100 8-GPU

2 FHFL PCIe5.0x16 3 FHFL PCIe5.0x16



4 CRPS (3000W)

4 CRPS (3000W)

4 HHHL PCIe5.0x16

4 HHHL PCIe5.0x16

Application

- Deep Learning
- Big Data Analytics
- Machine Learning
- HPC

6U8X-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	6U Rackmount
	Chassis Dimension	264.7 x 448 x 930mm (10.4" x 17.6" x 36.6")
Front Panel	Buttons	Power w/ LED, Reset, NMI, UID
	LEDs	System Fault LED, HDD Activity LED
	I/O	2 RJ45 (1GbE) by Intel® i350-AM2 1 dedicated IPMI 4 Type-A (USB3.2 Gen1)
Rear IO	RJ45	2 RJ45 (1GbE) by Intel® i350-AM2, shares with front panel 1 dedicated IPMI, shares with front panel
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID w/ LED
Expansion Slots	Front	Supports NVIDIA HGX™ H100 8-GPU with NVSwitch
	Rear	8 HHHL PCIe5.0x16 5 FHFL PCIe5.0x16
Drive Bay/ Storage	External	12 Hot-swap 2.5" NVMe (PCIe5.0x4) drive bays
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 form factor [PCH]
		1 M-key (PCIe3.0 x4), supports 2280/22110 form factor [PCH]
Power Supply	Module	4+4, 80-Plus Platinum/Titanium, 3000W CRPS
System Cooling	Fan	21 PWM Hot-swap 80x80 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

2U4N-R/EGS2



1U/2U High Density Storage



OCP NIC 3.0



Half-width



PCI-E 5.0



Application

- HPC
- Cloud Computing
- Internet Security and Science



3 Hot-swap 3.5" SATA/SAS^{Note1} drive bays (per node)

2 HHHL PCIe5.0x16 (per node)



1 OCP 3.0 PCIe5.0x16 (per node) 2 CRPS PSU (3000W)

2U4N-R/EGS2

CPU (per node)	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM (per node)	Slot	8+8 DDR5 288-pin (1DPC)
System Physical Status (per node)	Form Factor	2U Rackmount
	Chassis Dimension	850 x 438 x 87.1 mm (33.5" x 17.2" x 3.5")
Front Panel (per node)	Buttons	Power button
	LEDs	Power status, UID, BMC alert
Rear IO (per node)	RJ45	1 RJ45 (dedicated IPMI or Intel® i210 share NIC)
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots (per node)	Rear	2 HHHL PCIe5.0x16 1 OCP NIC 3.0 (PCIe5.0x16)
	Internal	3 Hot-swap 3.5" SATA/SAS ^{Note1} drive bays
Drive Bay/ Storage (per node)	External	2 M-key (PCIe4.0x4 or SATA 6Gb/s); support 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 3000W CRPS PSU
System Cooling	Fan	4 PWM Hot-swap 80x80mm fans
Management (per node)		ASPEED BMC AST2600
Security (per node)		SPI TPM by optional accessory

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

2U4N-F/EGS-M3



1U/2U High Density Storage



OCP NIC 3.0



4800



Half-width



PCI-E 5.0



2 HHHL PCIe5.0 x16



4 hot-swap 2.5" NVMe/SATA/SAS ^{Note1} drive bays (per node)



1+1 CRPS (2700W)

IPMI (per node)

1 OCP NIC 3.0 (per node)

Application

- HPC
- Cloud Computing
- Internet Security and Science

2U4N-F/EGS-M3

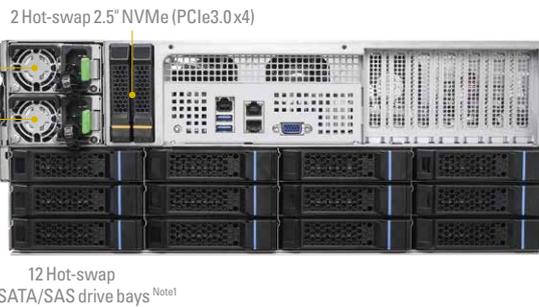
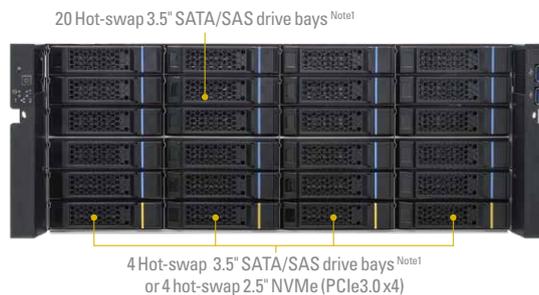
CPU (per node)	Socket	Single Socket E (LGA 4677), 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM (per node)	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	750 x 438 x 86.6 mm (29.5" x 17.2" x 3.4")
Front Panel (per node)	Buttons	Power, Reset
	LEDs	Power, UID, System Fail
	I/O	2 Type-A (USB3.2 Gen1)
Rear IO (per node)	RJ45	1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 mini-DisplayPort (VGA), 1 UID button w/ LED
Expansion Slots (per node)	Rear	2 HHHL PCIe5.0 x16 1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage (per node)	External	4 hot-swap 2.5" NVMe (PCIe5.0 x4)/SATA/SAS ^{Note1} drive bays or 8 hot-swap EDSFF E1.S NVMe (PCIe5.0 x4) drive bays, supports 9.5 mm width
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110 form factor 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum/Titanium, 2700W CRPS
System Cooling (per node)	Fan	4 PWM hot-swap dual-rotor 40x56 mm fans
Management (per node)		ASPEED BMC AST2600
Security (per node)		TPM by optional accessory

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

4U36L6E-EGS/2T



Storage	4800
PCI-E5.0	10Gbase-T



Application

- Corporate Database
- Enterprise Server

4U36L6E-EGS/2T

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	699 x 432 x 176 mm (27.52" x 17.01" x 6.93")
Front Panel	Buttons	Power Button, System Reset
	LEDs	Power Status, LAN1/LAN2 Activity, System Fail, HDD Status
	I/O	2 Type-A (USB2.0)
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	3 HHHL PCIe5.0 x16
Drive Bay/ Storage	External	Front: 20 Hot-swap 3.5" SATA/SAS drive bays ^{Note1} 4 Hot-swap 3.5" SATA/SAS drive bays ^{Note1} or 4 Hot-swap 2.5" NVMe (PCIe3.0 x4) drive bays Rear: 12 Hot-swap 3.5" SATA/SAS drive bays ^{Note1} 2 Hot-swap 2.5" NVMe (PCIe3.0 x4) drive bays
	Internal	1 M-key (PCIe3.0 x4 or SATA 6Gb/s); support 2280 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 1200W CRPS
System Cooling	Fan	7 PWM hot-swap 80x38mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

Note1: Additional RAID/HBA card required to support the 36 x 3.5" SATA/SAS drives

4U60L8E-EGS/2T

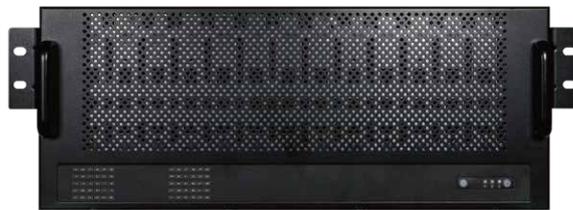


Storage

10Gbase-T

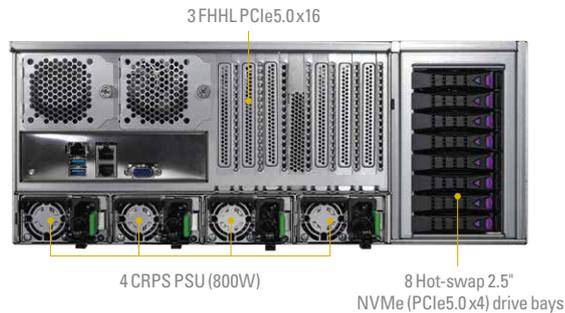
4800

PCI-E 5.0



Application

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



4U60L8E-EGS/2T

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	8 DDR5 288-pin (1DPC)
System Physical Status	Form Factor	4U Rackmount
	Chassis Dimension	434 x 853 x 176mm (17.1" x 33.5" x 6.9")
Front Panel	Buttons	System Power ON/OFF, System Reset, ID
	LEDs	Power, HDD Activity, LAN Activity, System fault, ID
Rear IO	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	3 FHHL PCIe5.0 x16
Drive Bay/ Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0 x4) drive bays
	Internal	60 Hot-swap 3.5" SATA/SAS drive bays ^{Note1} 1 M-key (PCIe3.0 x4 or SATA 6Gb/s); support 2280 form factor
	Power Supply	Module
System Cooling	Fan	4 PWM Hot-swap 80x38mm fans
Management		ASPEED BMC AST2600
Security		SPI TPM by optional accessory

Note1: Additional RAID/HBA card required to support the 60 x 3.5" SATA/SAS drives

1U12E-EGS2



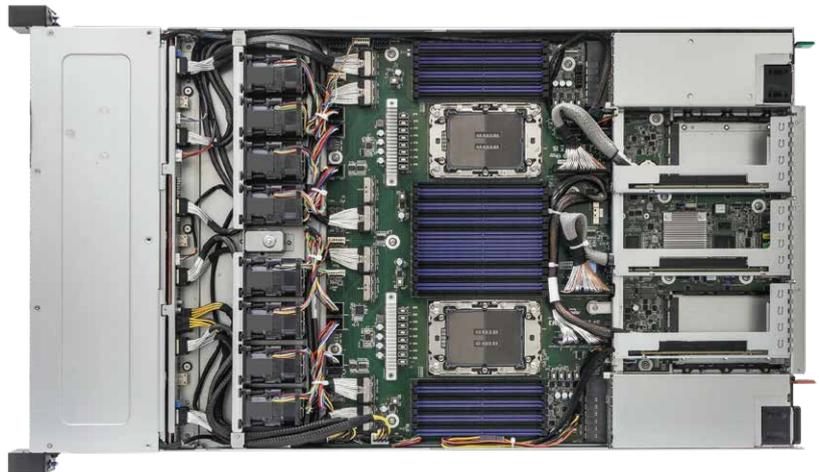
OCP NIC 3.0



PCI-E 5.0

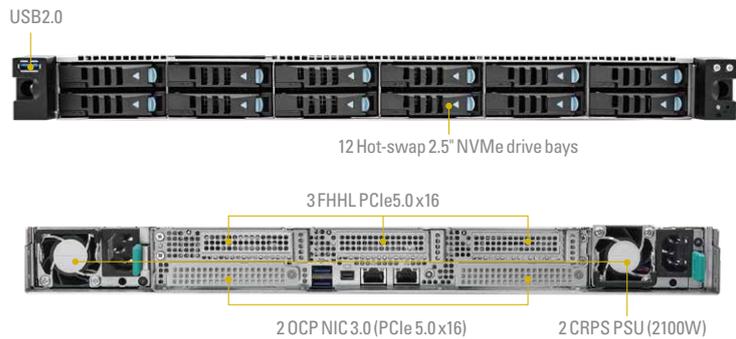


Storage



Application

- All-flash Storage Server
- Database Processing
- Virtualization
- E-commerce



1U12E-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	800 x 438 x 37 mm (31.50" x 17.24" x 1.47")
Front Panel	Buttons	Power button w/ LED, ID button w/ LED, System reset
	LEDs	System fault
	Others	1 Type-A (USB2.0)
Rear IO	RJ45	1 RJ45 (COM) 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 UID button w/ LED, 1 mini-DP (DP/Mini-DP)
Expansion Slots	PCIe	3 FHHL PCIe 5.0 x16 2 OCP NIC 3.0 (PCIe 5.0 x16)
	Drive Bay/ Storage	12 Hot-swap 2.5" NVMe drive bays
Power Supply	External	2 M-key (PCIe4.0 x4), support 22110/2280 form factor
	Module	1+1, 80-PLUS Platinum, 2100W CRPS PSU
System Cooling	Fan	8 PWM fixed 60x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

1U12E-EGS/2L2Q



OCP NIC 3.0



SFP28



Storage



PCI-E 5.0



Application

- All-flash Storage Server
- Database Processing
- Virtualization
- E-commerce



12 Hot-swap 2.5" NVMe drive bays



1 FHHL PCIe 5.0 x8

1+1 Slim PSU (1000W)

IPMI

1 OCP NIC 3.0

1U12E-EGS/2L2Q

CPU	Socket	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	1U Rackmount
	Chassis Dimension	676.5 x 438 x 43.4 mm (26.63" x 17.24" x 1.71")
Front Panel	Buttons	Power, Reset, UID
	LEDs	Power, UID, System Fail, LAN1/LAN2
	I/O	1 Type-A (USB 3.2 Gen1)
Rear IO	RJ45	2 SFP28 (25GbE) by Broadcom BCM57414 2 RJ45 (1GbE) by Intel® i350 1 dedicated IPMI
	USB	2 Type-A (USB 3.2 Gen1)
	Others	1 DB15 (VGA), 1 UID w/ LED
Expansion Slots	Rear	1 FHHL PCIe 5.0 x8 1 OCP NIC 3.0 (PCIe 5.0 x16)
	Internal	1 M key ^{Note2} (PCIe 3.0 x4 or SATA 6Gb/s); supports 22110/2280 form factor [PCH] 1 M key ^{Note2} (PCIe 3.0 x2 or SATA 6Gb/s); supports 2280 form factor [PCH]
Power Supply	Module	1+1, 80-PLUS Platinum, 1000W Slim PSU
System Cooling	Fan	6 PWM Hot-swap 40x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

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

Note2: M2_2 share lanes with M2_1

2U24E-EGS2



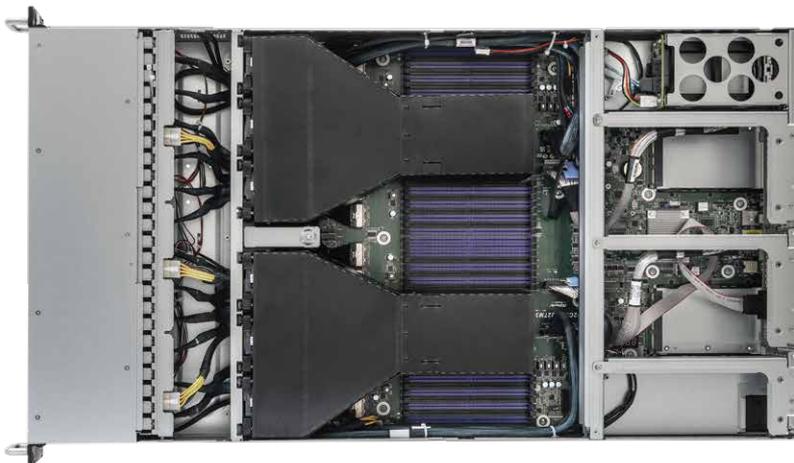
OCP NIC 3.0



PCI-E 5.0

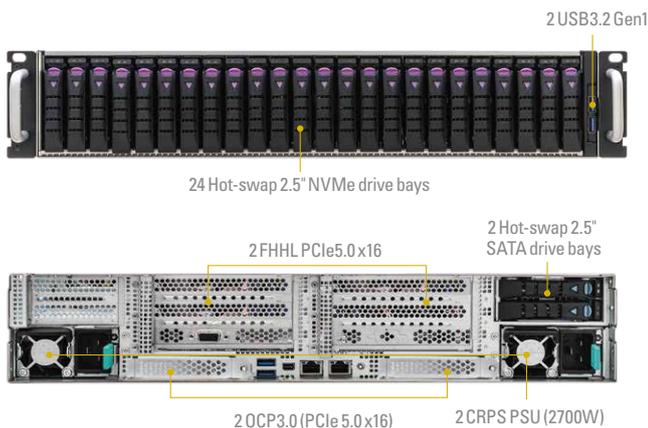


Storage



Application

- All-flash Storage Server
- Data Processing
- Cloud Computing
- High-end Enterprise Server



2U24E-EGS2

CPU	Socket	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
DIMM	Slot	16+16 DDR5 288-pin (2DPC)
System Physical Status	Form Factor	2U Rackmount
	Chassis Dimension	800 x 438 x 88 mm (31.50" x 17.24" x 3.46")
Front Panel	Buttons	Power w/ LED, ID w/ LED, System Reset
	LEDs	System fault
	Others	2 Type-A (USB3.2 Gen1)
Rear IO	RJ45	1 RJ45 (COM) 1 dedicated IPMI
	USB	2 Type-A (USB3.2 Gen1)
	Others	1 mini-DP (DP/Mini-DP), 1 DB15 (VGA), 1 UID button w/ LED
Expansion Slots	Rear	2 FHHL PCIe 5.0 x16 2 OCP NIC 3.0 (PCIe 5.0 x16)
	Internal	2 M-key (PCIe 4.0 x4), support 22110/2280 form factor
Drive Bay/ Storage	External	24 Hot-swap 2.5" NVMe drive bays 2 Hot-swap 2.5" SATA drive bays
	Internal	2 M-key (PCIe 4.0 x4), support 22110/2280 form factor
Power Supply	Module	1+1, 80-PLUS Platinum, 2700W CRPS PSU
System Cooling	Fan	6 PWM fixed 60x56 mm fans
Management		ASPEED BMC AST2600
Security		TPM by optional accessory

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.

SPC741D8UD-2T/X550



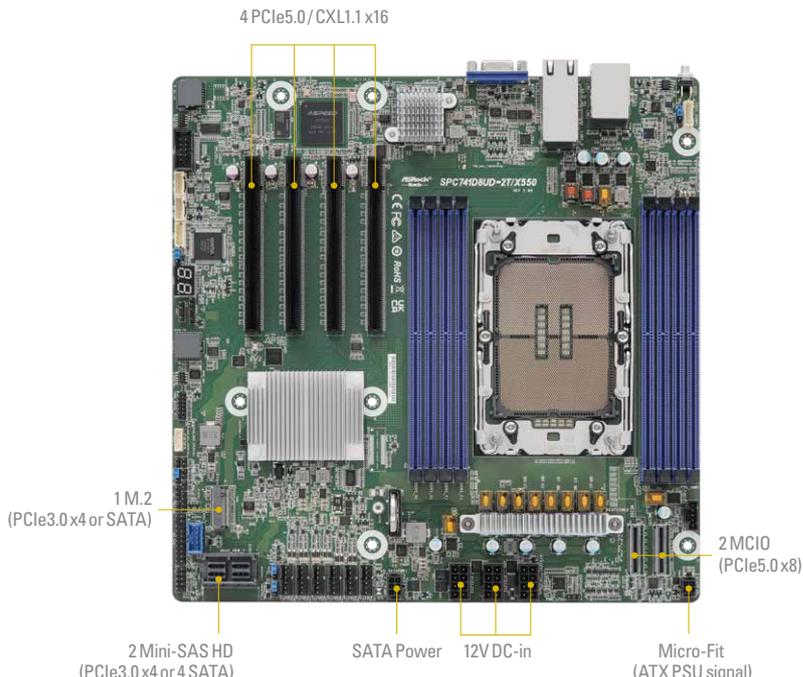
10Gbase-T



4800

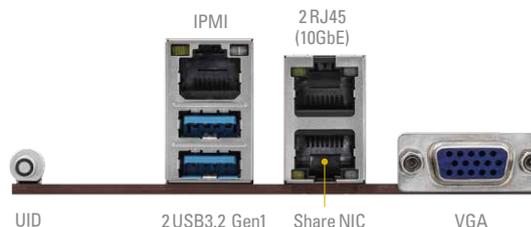


PCI-E5.0



Application

- Compact storage server
- Enterprise NAS
- High-end workstation



SPC741D8UD-2T/X550

Power source		Supports ATX PSU or 12V DC-in
Form Factor		Deep Micro-ATX (10.4" x 10.5")
Processor System	CPU PCH	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot Others	SLOT7: PCIe5.0/CXL1.1 x16 [CPU] SLOT6: PCIe5.0/CXL1.1 x16 [CPU] SLOT5: PCIe5.0/CXL1.1 x16 [CPU] SLOT4: PCIe5.0/CXL1.1 x16 [CPU] 2 MCI0 (PCIe5.0 x8) [CPU] 2 Mini-SAS HD (PCIe3.0 x4 or SATA 6Gb/s)
Storage	M.2 SATA port	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor [PCH] 9 SATA 6 Gb/s: 2 Mini-SAS HD, 1 M.2
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Management	BMC Dedicated IPMI	ASPEED AST2600 1 RJ45 via Realtek RTL8211F
I/O	USB COM port Video	2 USB3.2 Gen1 ports: 2 rear Type-A 2 USB2.0 ports: 2 via 9-pin header 1 (9-pin) header 1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

SPC741D8-2L2T/BCM

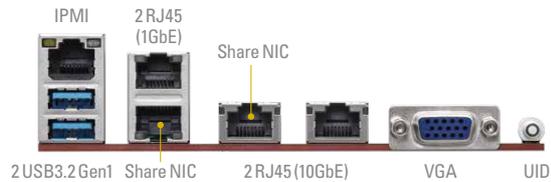
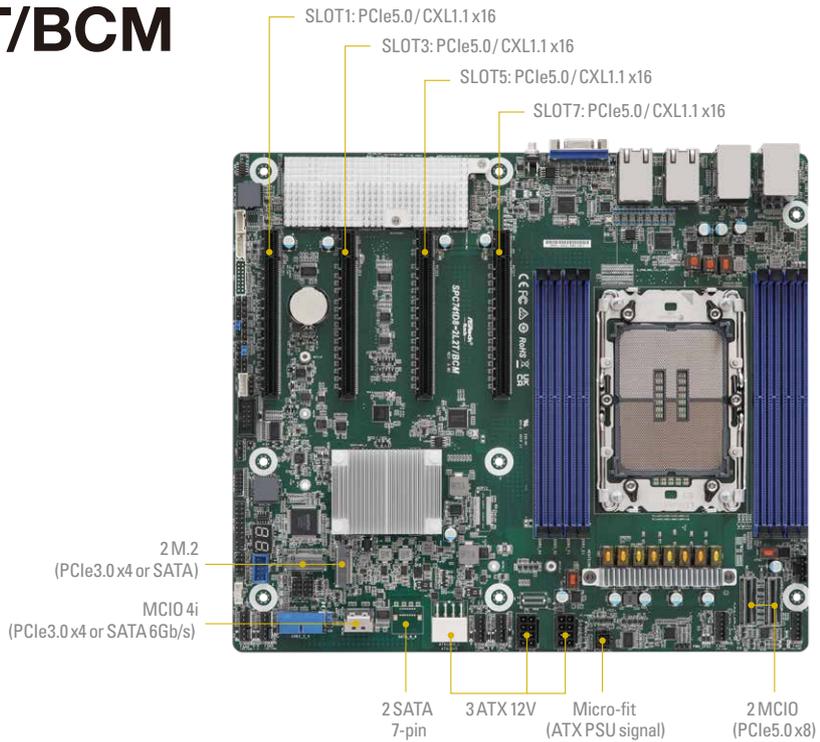
SPC741D8-2T/BCM



10Gbase-T

DDR5
4800

PCI-E 5.0



Application

- Deep learning workstation
- Visual computing
- High-end workstation
- General Purpose Server

SPC741D8-2L2T/BCM

SPC741D8-2T/BCM

Form Factor	CEB (12" x 10.5")	
Processor System	CPU: 1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors PCH: Intel® C741	
Memory	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot	SLOT7: PCIe5.0/CXL1.1 x16 [CPU] SLOT5: PCIe5.0/CXL1.1 x16 [CPU] SLOT3: PCIe5.0/CXL1.1 x16 [CPU] SLOT1: PCIe5.0/CXL1.1 x16 [CPU]
	Others	1 MCI0 4i (PCIe3.0 x4 or SATA 6Gb/s) [PCH] 2 MCI0 (PCIe5.0 x8) [CPU]
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [PCH] 1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]
	SATA port	Up to 12 SATA 6Gb/s: 1 MCI0 4i, 8 SATA via optional M2U2_HD_G4 M.2 device
Network	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210
		Up to 14 SATA 6Gb/s: 1 MCI0 4i, 8 SATA via optional M2U2_HD_G4 M.2 device, 2 SATA 7-pin 2 RJ45 (10GbE) by Broadcom BCM57416
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

SPC741D8QM3-2T/X550

SPC741D8QM3-NL

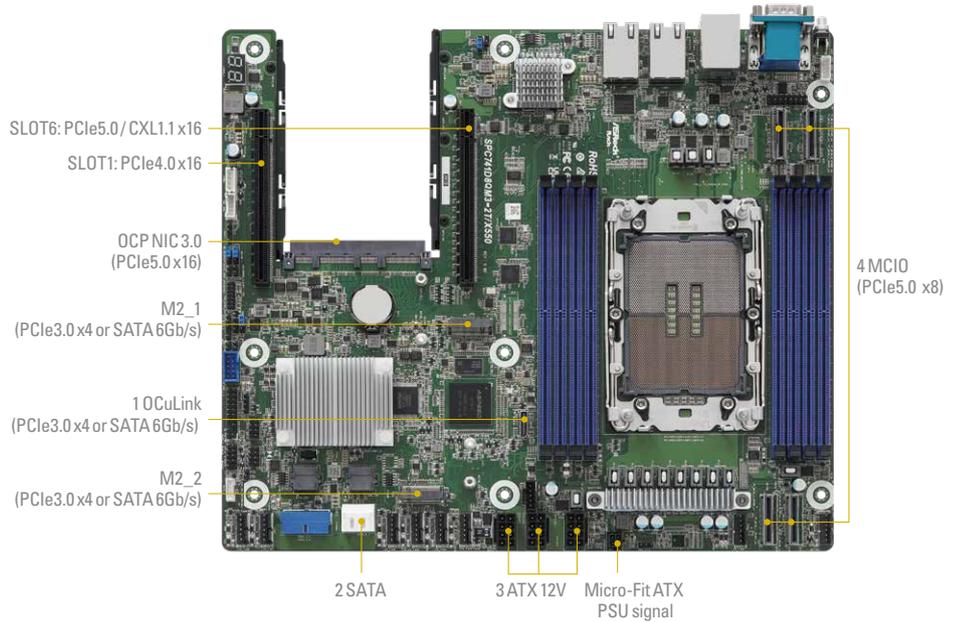


10Gbase-T

4800

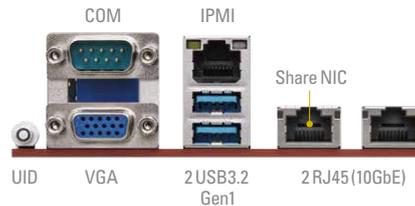
PCI-E 5.0

OCP NIC 3.0



Application

- NVMe Storage Server
- Web Hosting
- General Purpose Server



SPC741D8QM3-2T/X550

SPC741D8QM3-NL

		SPC741D8QM3-2T/X550	SPC741D8QM3-NL
Form Factor		CEB (12" x 10.5")	
Processor System	CPU PCH	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741	
Memory	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors	
Expansion	PCIe slot	SLOT1: PCIe4.0 x16 [CPU] SLOT6: PCIe5.0/CXL1.1 x16 [CPU]	
	Others	1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 4 MCIO (PCIe5.0 x8) [CPU]	
Storage	M.2	M2_1 (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/2260 form factor [PCH] M2_2 (PCIe3.0 x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]	
	SATA port	8 SATA 6 Gb/s: 1 OCuLink, 2 SATA 7-pin, 2 M.2	
Network	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2	NA
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16) [CPU]	
Management	BMC	ASPEED AST2600	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 DB9 (COM)	
	Video	1 DB15 (VGA)	
Security	TPM	Supports 13-pin (SPI) TPM modules	

SPC741D16QM3-2L2Q



OCP NIC 3.0

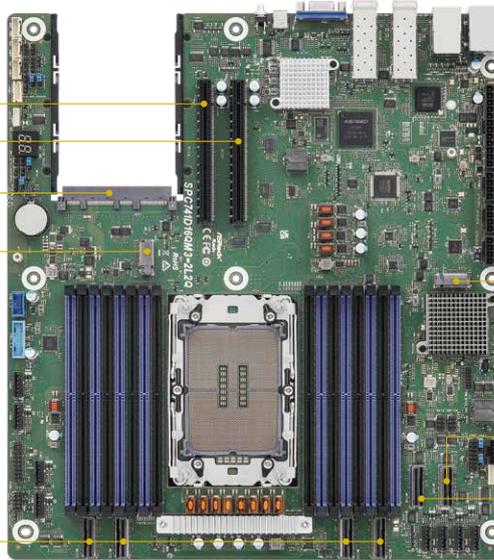


PCI-E 5.0



SFP28

SLOT6: PCIe5.0/CXL1.1 x16
 SLOT7: PCIe5.0 x8/x16^{Note1}
 1 OCP NIC 3.0 (PCIe5.0 x16)
 M2_2^{Note4}
 (PCIe3.0 x2 or SATA 6Gb/s)



M2_1^{Note3}
 (PCIe3.0 x4 or SATA 6Gb/s)
 1 MCIO
 (PCIe3.0 x8 or 8 SATA 6Gb/s)
 1 MCIO^{Note2}
 (PCIe3.0 x4 or 4 SATA 6Gb/s)

4 MCIO
 (PCIe5.0 x8)



Application

- Software-defined application
- Storage Server

SPC741D16QM3-2L2Q

SPC741D16QM3-2L+

Form Factor		EEB (12" x 13.4")	
Processor System	CPU	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors	
	PCH	Intel® C741	
Memory	Capacity	16 DDR5 288-pin DIMM Slots (2DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s (1DPC) / 4400 MT/s (2DPC) on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s (1DPC) / 4400 MT/s (2DPC) on 4 th Gen Intel® Xeon® Scalable Processors	
	PCIe slot	SLOT7: PCIe5.0 x8/x16 ^{Note1} [CPU] SLOT6: PCIe5.0 / CXL1.1 x16 [CPU]	SLOT7: PCIe5.0 / CXL1.1 x16 [CPU] SLOT6: PCIe5.0 / CXL1.1 x16 [CPU]
Expansion	Others	4 MCIO (PCIe5.0 x8) [CPU] 1 MCIO (PCIe3.0 x8 or 8 SATA 6Gb/s) [PCH] 1 MCIO ^{Note2} (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]	
	M.2	M2_1 ^{Note3} (PCIe3.0 x4 or SATA 6Gb/s); supports 22110/2280 form factor [PCH] M2_2 ^{Note4} (PCIe3.0 x2 or SATA 6Gb/s); supports 2280 form factor [PCH]	
	SATA port	14 SATA 6Gb/s: 2 MCIO, 2 M.2	
Network	RJ45	2 RJ45 (1GbE) by Intel® i350	
	SFP	2 SFP28 (25GbE) by Broadcom BCM57414	NA
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16)	
Management	BMC	ASPEED AST2600: IPMI 2.0	
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F	
I/O	USB	4 USB3.2 Gen1 ports: 2 rear Type-A, 2 via 19-pin header 2 USB2.0 ports: 2 via 9-pin header	
	COM port	1 rear via Type-C connector for debug only	
	Video	1 DB15 (VGA), 1 (15-pin) header	
	Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: SLOT7 supports PCIe5.0 x16 when BCM57414 is disabled.
 Note2: MCIO supports 4 SATA 6Gb/s by default. Please contact ASRock Rack for PCIe3.0 x4 support.
 Note3: M2_1 will auto-switch to SATA only when M2_2 is occupied.
 Note4: M2_2 supports SATA by default only. Please contact ASRock Rack for PCIe3.0 x2 support.
 Note5: Set the Share NIC (RJ45_LAN3 or SFP28_2_1) via jumper setting.

SPC741D8HM3



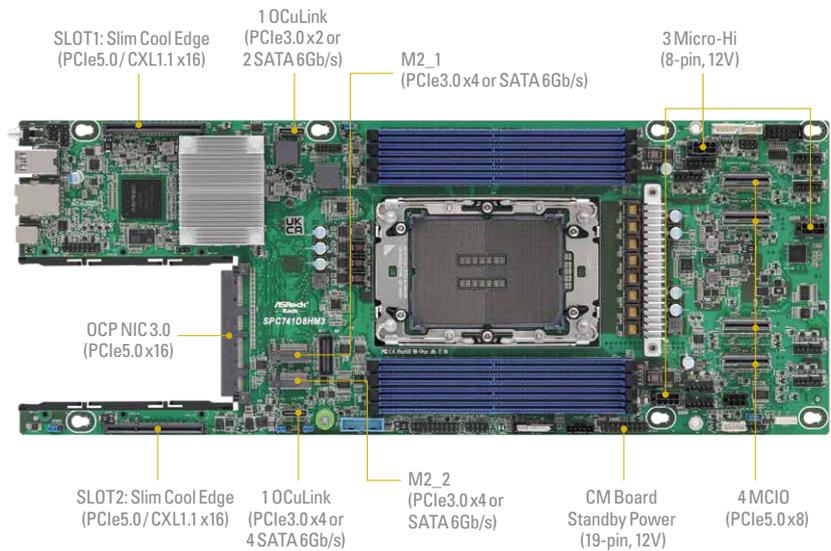
OCP NIC 3.0



4800



PCI-E 5.0



Application

- Edge server
- Multi-node server



SPC741D8HM3

Form Factor		Half-Width (6.6" x 17")
Processor System	CPU PCH	1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot Others	SLOT1: Slim Cool Edge (PCIe5.0/CXL1.1 x16) [CPU] SLOT2: Slim Cool Edge (PCIe5.0/CXL1.1 x16) [CPU] 1 OCuLink (PCIe3.0x4 or 4 SATA 6Gb/s) [PCH] 1 OCuLink (PCIe3.0x2 or 2 SATA 6Gb/s) [PCH] 4 MCIO (PCIe5.0x8) [CPU]
Storage	M.2 SATA port	M2_2 (PCIe3.0x4 or SATA 6Gb/s); supports 22110 form factor [PCH] M2_1 (PCIe3.0x4 or SATA 6Gb/s); supports 2280 form factor [PCH] Up to 8 SATA 6 Gb/s: 2 OCuLink, 2 M.2
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0x16) [CPU]
Management	BMC Dedicated IPMI	ASPEED AST2600 1 RJ45 via Realtek RTL8211F
I/O	USB COM port Video	2 USB3.2 Gen1 ports: 2 rear Type-A 2 USB3.2 ports: 2 via 19-pin header 1 header (9-pin) 1 Mini DP (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

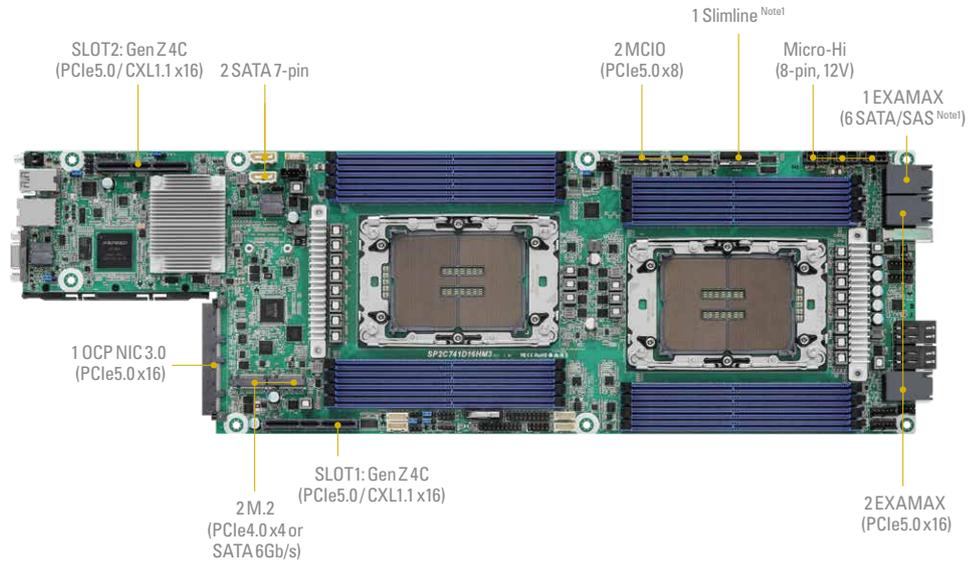
SP2C741D16HM3



OCP NIC 3.0

DDR5
4800

PCI-E5.0



Application

- Multi-node server
- HPC
- HCI



SP2C741D16HM3

Form Factor		Half-width (6.7" x 21")
Processor System	CPU PCH	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	8+8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot Others	SLOT1: Gen Z 4C (PCIe5.0 / CXL1.1 x16) [CPU0] SLOT2: Gen Z 4C (PCIe5.0 / CXL1.1 x16) [CPU0] 2 EXAMAX (PCIe5.0 x16) [CPU1] 2 MCI0 (PCIe5.0 x8) [CPU0] 1 Slimline ^{Note1}
Storage	M.2 SATA port	2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor [CPU0] 10 SATA 6 Gb/s: 2 SATA 7-pin, 2 M.2, 1 EXAMAX
Network	RJ45 OCP NIC	1 RJ45 ^{Note2} (1GbE) by Intel® i210 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU0]
Management	BMC Dedicated IPMI	ASPEED AST2600 2 Realtek RTL8211F ^{Note2}
I/O	USB COM port Video	2 USB3.2 Gen1 ports: 2 rear Type-A 1 (3-pin) header 1 DB15 (VGA)
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: SAS is supported by additional RAID card only, and the Slimline is reserved to extend SAS from RAID card to EXAMAX.
Note2: SP2C741D16HM3 has only 1 RJ45 for dedicated IPMI or shared NIC, and is configurable by jumper setting.

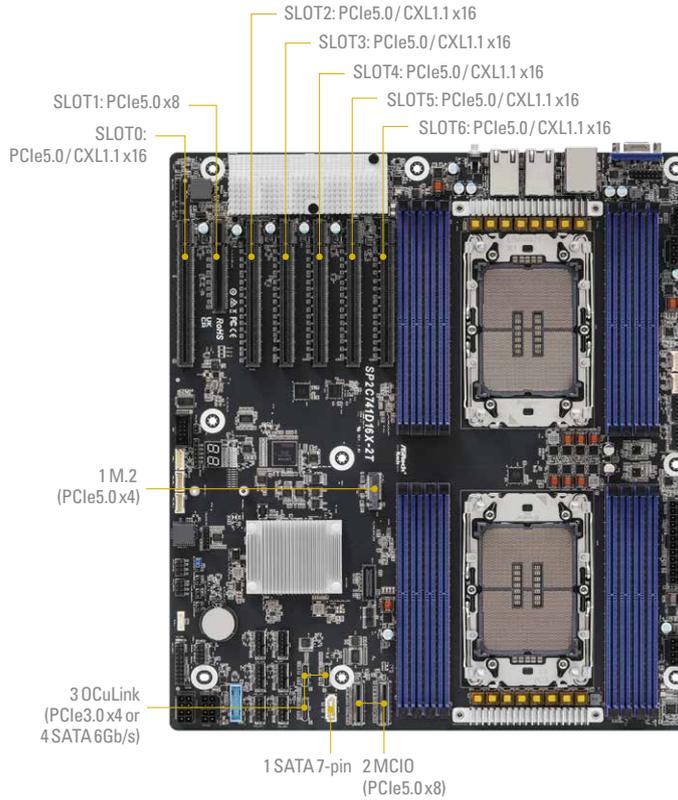
SP2C741D16X-2T



10Gbase-T

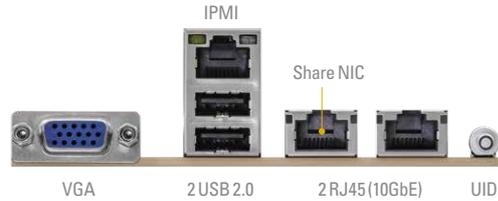
4800

PCI-E5.0



Application

- Storage Server
- Mainstream server for SMB
- High-end workstation/ industrial application



SP2C741D16X-2T

Form Factor		EEB (12.4" x 14") ^{Note1}
Processor System	CPU	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
	PCH	Intel® C741
Memory	Capacity	8+8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot	SLOT6: PCIe5.0/ CXL1.1 x16 [CPU0] SLOT5: PCIe5.0/ CXL1.1 x16 [CPU1] SLOT4: PCIe5.0/ CXL1.1 x16 [CPU0] SLOT3: PCIe5.0/ CXL1.1 x16 [CPU1] SLOT2: PCIe5.0/ CXL1.1 x16 [CPU1] SLOT1: PCIe5.0x8 [CPU0] SLOT0: PCIe5.0/ CXL1.1 x16 [CPU1]
	Others	3 OCuLink (PCIe3.0x4 or 4 SATA 6Gb/s) [PCH] 2 MCIO (PCIe5.0x8) [CPU0]
Storage	M.2	1 M-key (PCIe5.0x4), supports 22110/2280 form factor [CPU0]
	SATA port	13 SATA 6 Gb/s: 3 OCuLink, 1 SATA 7-pin
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	2 USB3.2 Gen1 ports: 1 via 19-pin header 2 USB2.0 ports: 2 rear Type-A
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Extend 10.1mm left

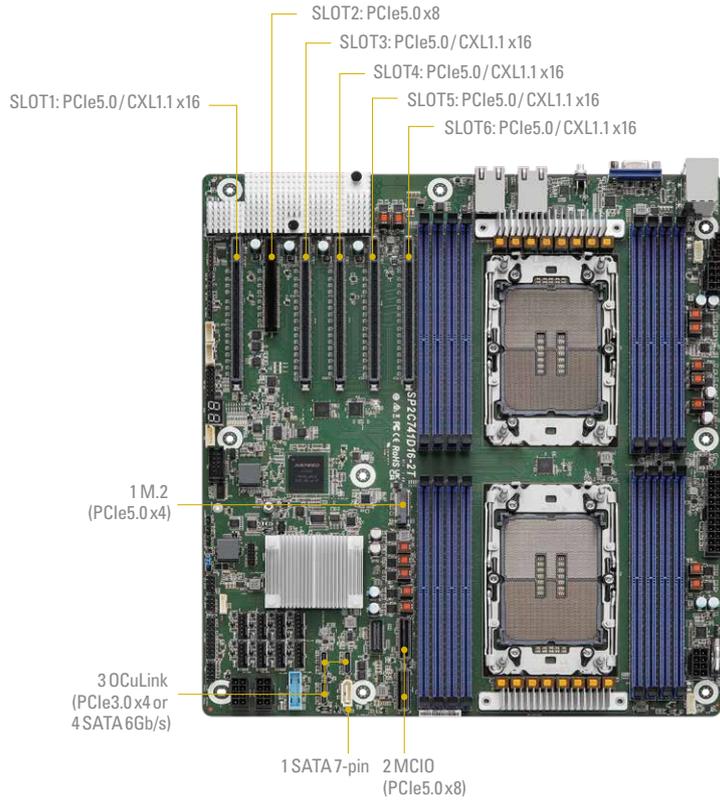
SP2C741D16-2T



10Gbase-T

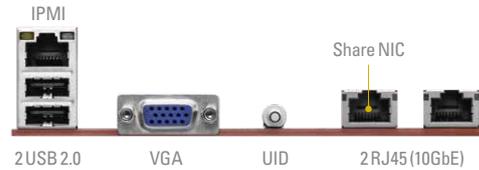
4800

PCI-E5.0



Application

- Storage Server
- Mainstream server for SMB
- High-end workstation/ industrial application



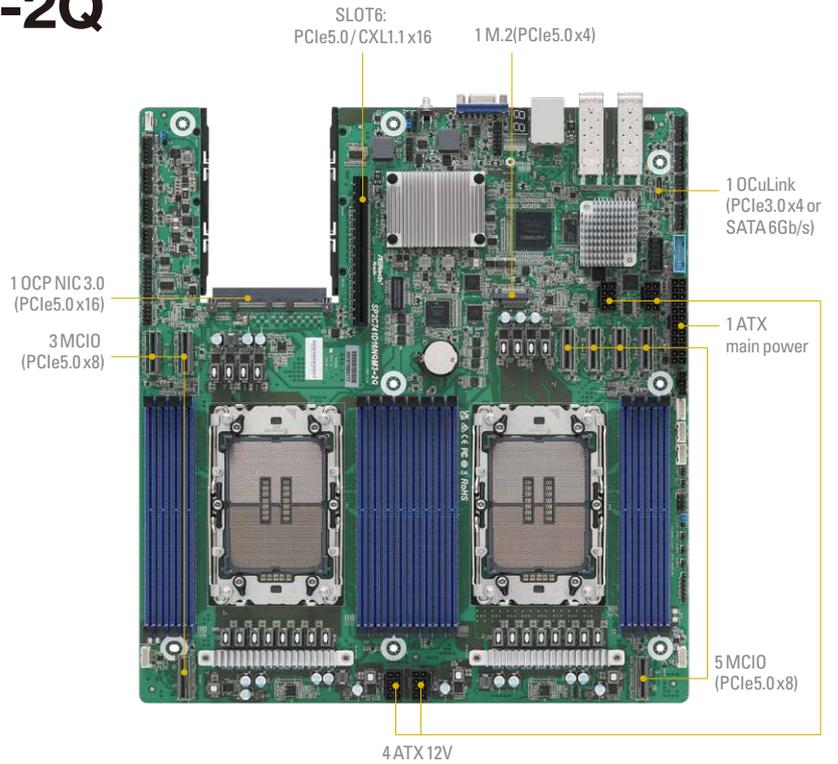
SP2C741D16-2T

Form Factor		EEB (12.12" x 13.3")
Processor System	CPU	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
	PCH	Intel® C741
Memory	Capacity	8+8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot	SLOT6: PCIe5.0/ CXL1.1 x16 [CPU0] SLOT5: PCIe5.0/ CXL1.1 x16 [CPU1] SLOT4: PCIe5.0/ CXL1.1 x16 [CPU0] SLOT3: PCIe5.0/ CXL1.1 x16 [CPU1] SLOT2: PCIe5.0 x8 [CPU0] SLOT1: PCIe5.0/ CXL1.1 x16 [CPU1]
	Others	3 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 2 MCI0 (PCIe5.0 x8) [CPU0]
Storage	M.2	1 M-key (PCIe5.0 x4), supports 22110/2280 form factor [CPU0]
	SATA port	13 SATA 6 Gb/s: 3 OCuLink, 1 SATA 7-pin
Network	RJ45	2 RJ45 (10GbE) by Intel® X710-AT2
Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	2 USB3.2 Gen1 ports: 1 via 19-pin header 2 USB2.0 ports: 2 rear Type-A
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

SP2C741D16NQM3-2Q



4800	OCP NIC 3.0
SFP28	PCI-E 5.0



Application

- Software-defined application
- HCI

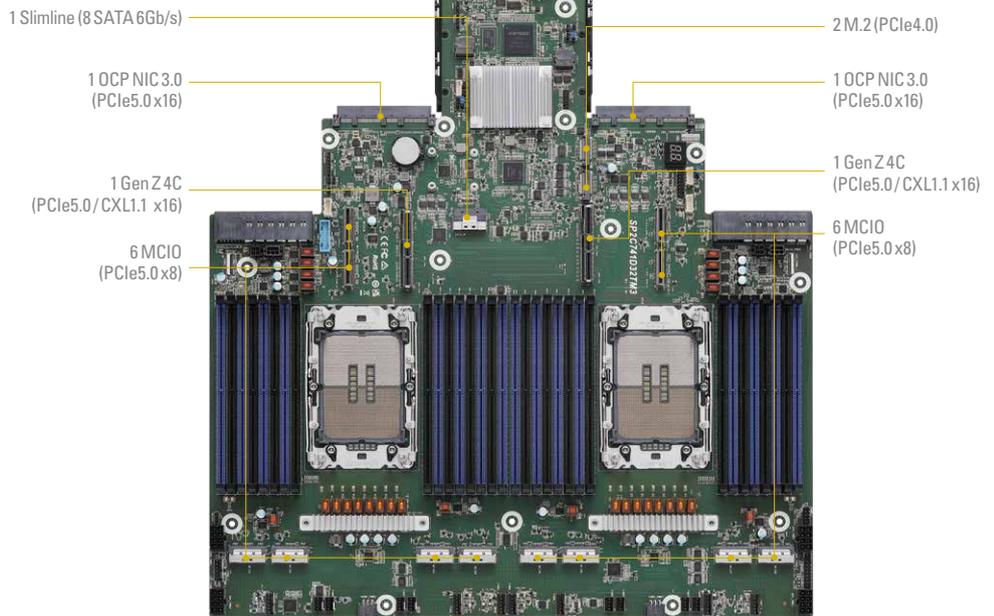


SP2C741D16NQM3-2Q

Form Factor		EEB (12.8" x 14") ^{Note1}
Processor System	CPU PCH	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	8+8 DDR5 288-pin DIMM Slots (1DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot Others	SLOT6: PCIe5.0/CXL1.1 x16 [CPU1] 5 MCIO (PCIe5.0 x8) [CPU0] 3 MCIO (PCIe5.0 x8) [CPU1] 1 OCuLink (PCIe3.0x4 or SATA 6Gb/s) [PCH]
Storage	M.2 SATA port	1 M-key (PCIe5.0 x4), supports 2280 form factor [CPU0] 4 SATA 6Gb/s: 1 OCuLink
Network	SFP OCP NIC	2 SFP28 (25GbE) by Broadcom BCM57414 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1]
Management	BMC Dedicated IPMI	ASPEED AST2600 1 RJ45 via Realtek RTL8211F
I/O	USB COM port Video	2 USB3.2 Gen1 ports: 2 via 19-pin header 2 USB2.0 ports: 2 rear Type-A 1 (9-pin) header 1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

Note1: Extend 9.6mm left and 10.7mm right

SP2C741D32TM3



Application

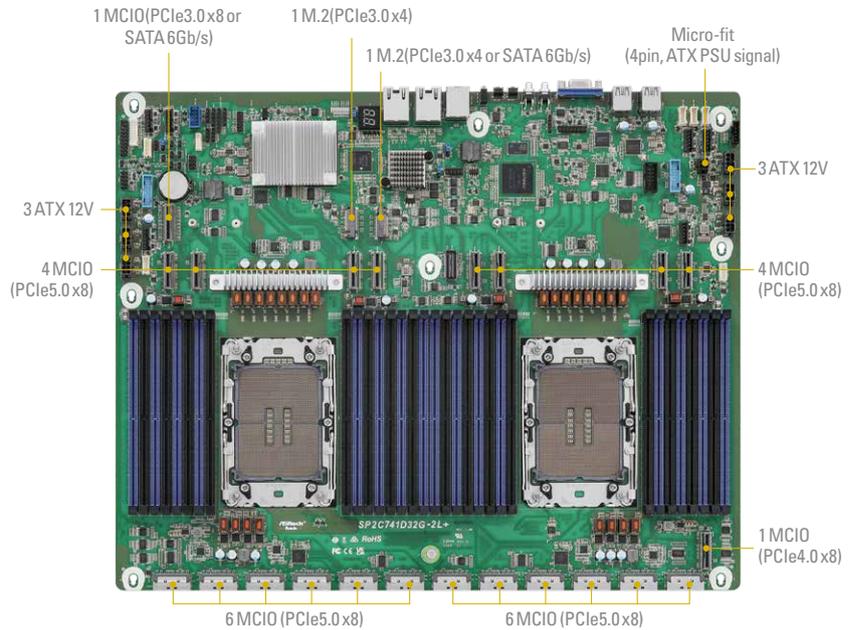
- Software-defined application
- E-commerce
- HCI



SP2C741D32TM3

Form Factor		Proprietary (18.87" x 16.85")
Processor System	CPU PCH	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	16+16 DDR5 288-pin DIMM Slots (2DPC); RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s (1DPC) / 4400 MT/s (2DPC) on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s (1DPC) / 4400 MT/s (2DPC) on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	PCIe slot Others	RDIMM-3DS up to 256GB each, max. 4400MT/s SLOT1: Gen Z 4C (PCIe5.0 / CXL1.1 x16) [CPU2] SLOT2: Gen Z 4C (PCIe5.0 / CXL1.1 x16) [CPU1] 6 MCIO (PCIe5.0 x8) [CPU2] 6 MCIO (PCIe5.0 x8) [CPU1]
Storage	M.2 SATA port	1 Slimline (8 SATA 6Gb/s) [PCH] 2 M-key (PCIe4.0 x4), supports 22110/2280 form factor [CPU1]
Network	OCP NIC	8 SATA 6Gb/s: 1 Slimline 1 OCP NIC 3.0 (PCIe5.0 x16) [CPU2]
Management	BMC Dedicated IPMI	1 OCP NIC 3.0 (PCIe5.0 x16) [CPU1] ASPEED AST2600
I/O	USB COM port Video	1 RJ45 via Realtek RTL8211F 5 USB3.2 Gen1 ports: 2 rear Type-A, 1 via 26-pin header, 2 via 19-pin header 2 USB2.0 port: 2 via 26-pin header 1 RJ45 (COM)
Security	TPM	1 Mini-DP (DP/Mini-DP), 1 (15-pin) header Supports 13-pin (SPI) TPM modules

SP2C741D32G-2L+



Application

- All-flash Storage Server
- GPGPU Computing
- High-end Network Appliance



SP2C741D32G-2L+

Form Factor		Proprietary (16.93" x 13.79")
Processor System	CPU PCH	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors Intel® C741
Memory	Capacity	16+16 DDR5 288-pin DIMM Slots (2DPC); Supports: RDIMM up to 64GB each, RDIMM-3DS up to 256GB each 5600 MT/s (1DPC) / 4400 MT/s (2DPC) on 5 th Gen Intel® Xeon® Scalable Processors 4800 MT/s (1DPC) / 4400 MT/s (2DPC) on 4 th Gen Intel® Xeon® Scalable Processors
Expansion	Others	10 MCIO (PCIe5.0 x8) [CPU0] 10 MCIO (PCIe5.0 x8) [CPU1] 1 MCIO (PCIe4.0 x8) [CPU1] 1 MCIO (PCIe3.0 x8 or SATA 6Gb/s) [PCH]
Storage	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280/22110 [PCH] 1 M-key (PCIe3.0 x4), supports 2280/22110 form factor [PCH]
	SATA port	9 SATA 6Gb/s: 1 MCIO, 1 M.2
Network	RJ45	2 RJ45 (1GbE) by Intel® i350
Management	BMC Dedicated IPMI	ASPEED AST2600 1 RJ45 via Realtek RTL8211F
I/O	USB COM port Video	8 USB3.2 Gen1 ports: 4 rear Type-A, 4 via 19-pin header 1 (9-pin) header 1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules



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