

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



Content

BAREBONE		
General Purpose	1U4L-EGS/2T	B-01
	1U4L4E-EGS/2T	B-02
	1U8S4E-EGS/2T	B-03
	1U12L4E-EGS/2L2Q	B-04
GPU	1U1G-EGS/M3	B-05
	2U4G8E-EGS2	B-06
	4U8G-EGS2, 4U10G-EGS2	B-07
	6U8X-EGS2	B-08
Multi-nodes	2U4N-R/EGS2	B-09
	2U4N-F/EGS-M3	B-10
Storage	4U36L6E-EGS/2T	B-11
	4U60L8E-EGS/2T	B-12
NVMe Storage	1U12E-EGS2	B-13
	1U12E-EGS/2L2Q	B-14
	2U24E-EGS2	B-15

SERVER MOTHERBOARD		
Server Motherboard (Single Socket)	SPC741D8UD-2T/X550	M-01
	SPC741D8-2L2T/BCM, SPC741D8-2T/BCM	M-02
	SPC741D8QM3-2T/X550, SPC741D8QM3-NL	M-03
	SPC741D16QM3-2L2Q	M-04
	SPC741D8HM3	M-05
Server Motherboard (Dual Socket)	SP2C741D16HM3	M-06
	SP2C741D16X-2T	M-07
	SP2C741D16-2T	M-08
	SP2C741D16NQM3-2Q	M-09
	SP2C741D32TM3	M-10
	SP2C741D32G-2L+	M-11

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



10Gbase-T



Storage



4800

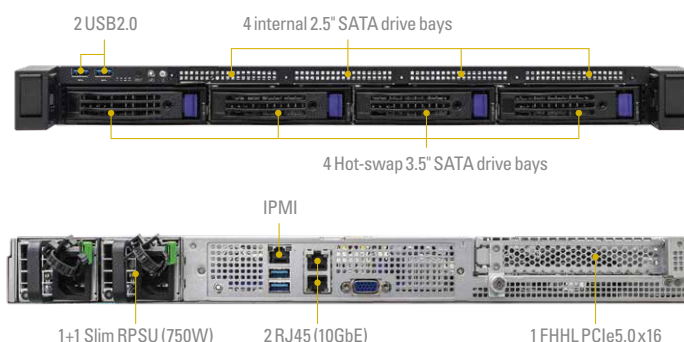


PCI-E 5.0



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
	USB	1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	1 DB15 (VGA), 1 UID button w/ LED
Drive Bay/ Storage	External	1 FHHL PCIe5.0x16 via RB1UX16R_G5
	Internal	4 Hot-swap 3.5" SATA drive bays
		1 M-key (PCIe3.0 x4); support 2280 form factor
Power Supply	Module	4 Internal 2.5" SATA drive bays
System Cooling	Fan	1+1, 80-PLUS Platinum, 750W Slim RPSU
Management		6 PWM Hot-swap 40x56 mm fans
Security		ASPEED BMC AST2600
		SPI TPM by optional accessory

1U4L4E-EGS/2T



10Gbase-T



Storage



4800

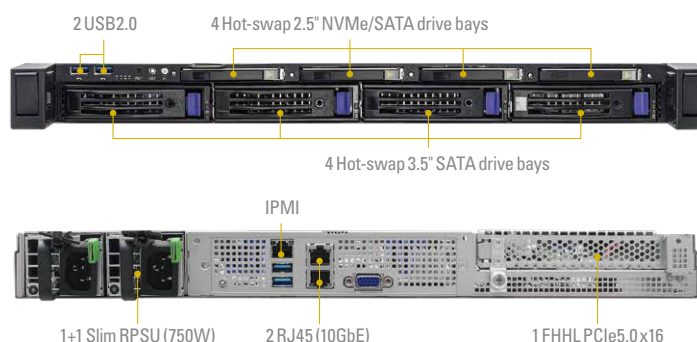


PCI-E 5.0



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
	USB	1 dedicated IPMI
	Others	2 Type-A (USB3.2 Gen1)
Expansion Slots	Rear	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
	Internal	4 Hot-swap 3.5" SATA drive bays
Power Supply	Module	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



10Gbase-T



Storage



4800

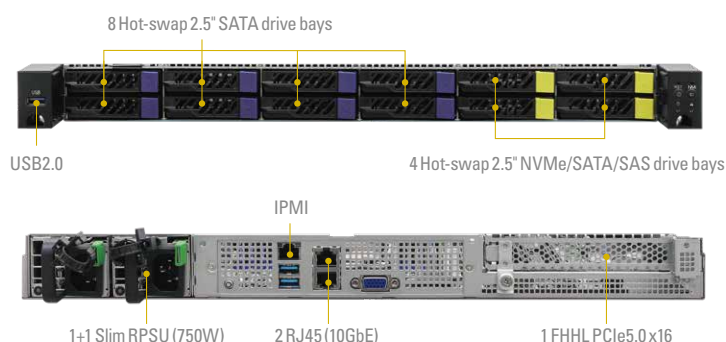


PCI-E 5.0



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



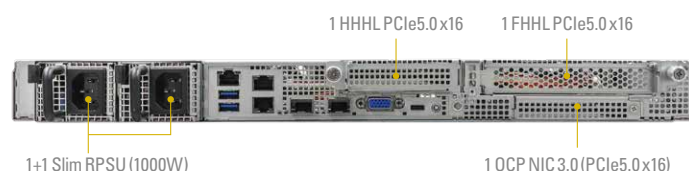
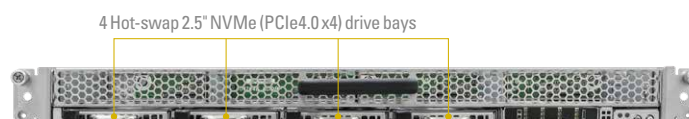
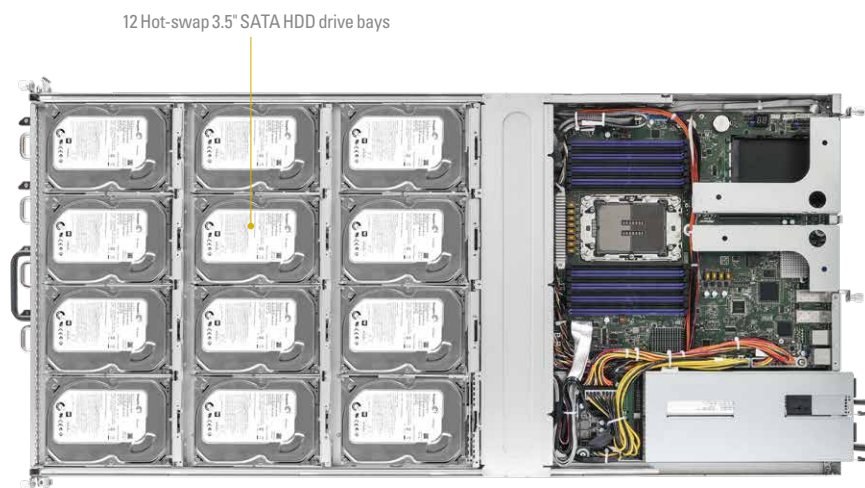
SFP28



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 PCIe 5.0 x16 via RB1UX16R_G5 1 HHHL PCIe 5.0 x16 via RB1UX16L_G5 1 OCP NIC 3.0 (PCIe 5.0 x16)
Drive Bay/ Storage	External	4 Hot-swap 2.5" NVMe (PCIe 4.0 x4) drive bays
	Internal	12 Hot-swap 3.5" SATA HDD drive bays 1 M-key ^{Note1} (PCIe 3.0 x4 or SATA 6Gb/s); supports 22110/2280 form factor [PCH] 1 M-key ^{Note1} (PCIe 3.0 x2 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

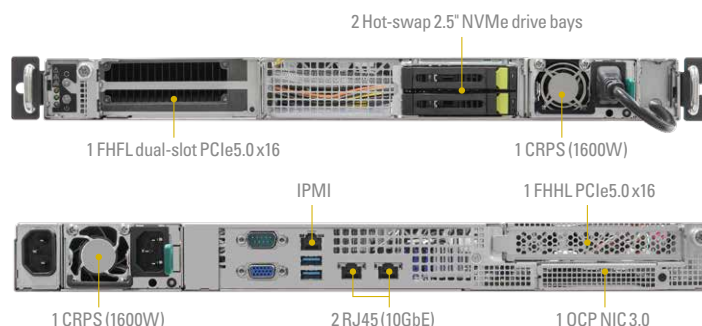


PCI-E 5.0



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 FHFL 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

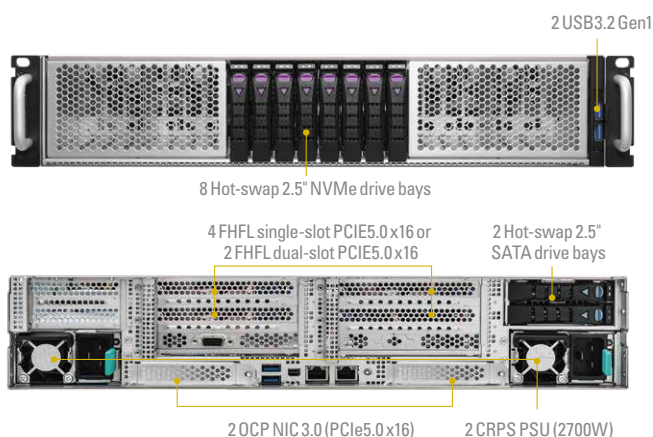


OCP NIC 3.0



Application

- Artificial Intelligence
- Machine Learning
- HPC
- Virtualization

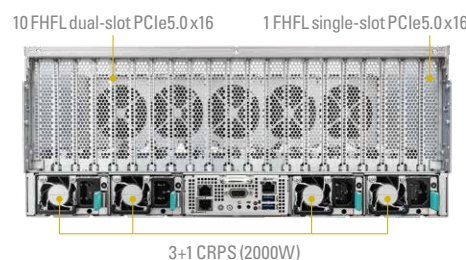
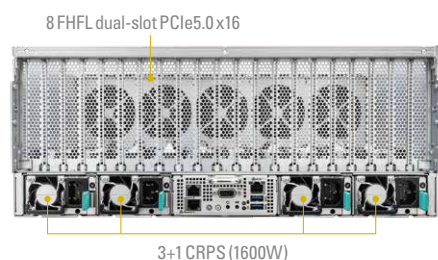
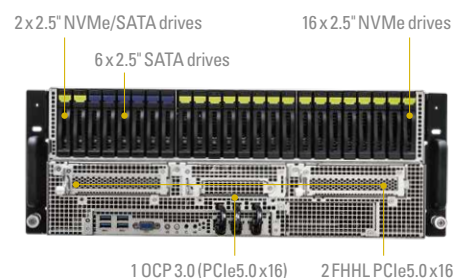
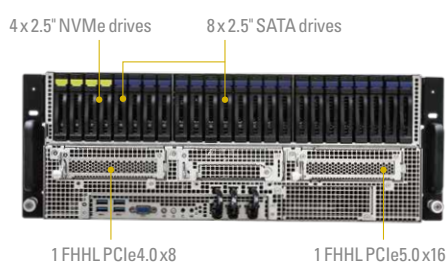
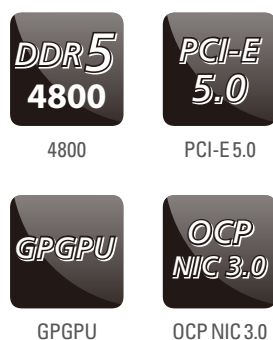
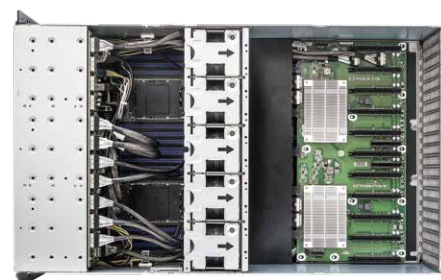
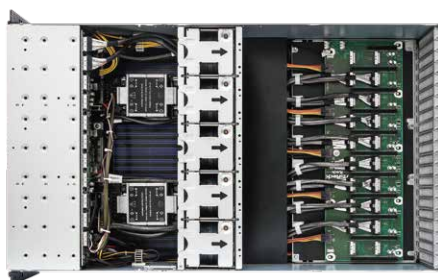


2U4G8E-EGS2

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



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 (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	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	
	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



4800



PCI-E 5.0

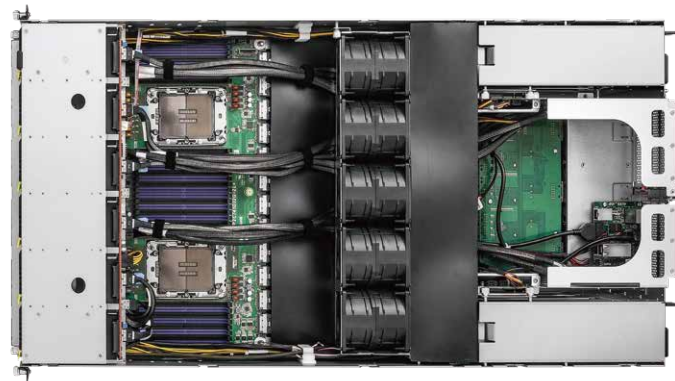


GPGPU

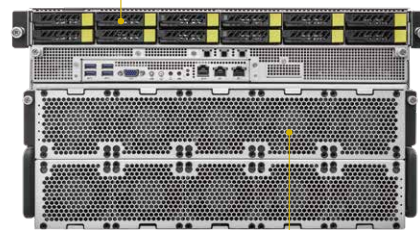

NVIDIA
HGX H100

Application

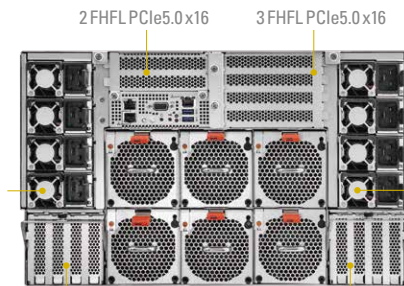
- Deep Learning
- Big Data Analytics
- Machine Learning
- HPC



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

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



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

2 HHHL PCIe5.0 x16 (per node)



1 OCP 3.0 PCIe5.0 x16 (per node)

2 CRPS PSU (3000W)

Application

- HPC
- Cloud Computing
- Internet Security and Science

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 PCIe5.0 x16
		1 OCP NIC 3.0 (PCIe5.0 x16)
Drive Bay/ Storage (per node)	External	3 Hot-swap 3.5" SATA/SAS ^{Note1} drive bays
	Internal	2 M-key (PCIe4.0 x4 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



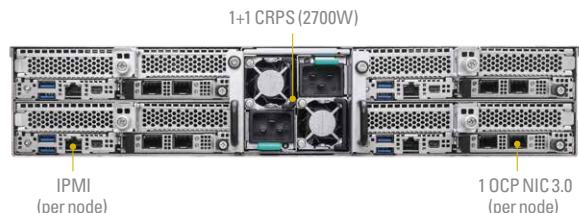
4800



Half-width



PCI-E 5.0



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
		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-E 5.0



10Gbase-T

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)

2 Hot-swap 2.5" NVMe (PCIe3.0 x4)

2 CRPS
(1200W)12 Hot-swap
3.5" SATA/SAS drive bays ^{Note1}

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 HHL 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



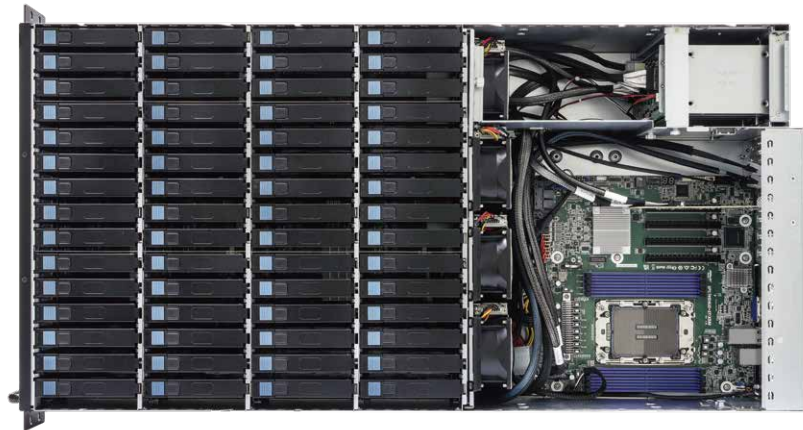
10Gbase-T



4800



PCI-E 5.0



3 FHHL PCIe5.0x16



4 CRPS PSU (800W)

8 Hot-swap 2.5" NVMe (PCIe5.0x4) drive bays

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 PCIe5.0x16
Drive Bay/ Storage	External	8 Hot-swap 2.5" NVMe (PCIe5.0x4) drive bays
	Internal	60 Hot-swap 3.5" SATA/SAS drive bays ^{Note1} 1 M-key (PCIe3.0x4 or SATA 6Gb/s); support 2280 form factor
Power Supply	Module	2+2, 80-PLUS Platinum, 800W CRPS PSU
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



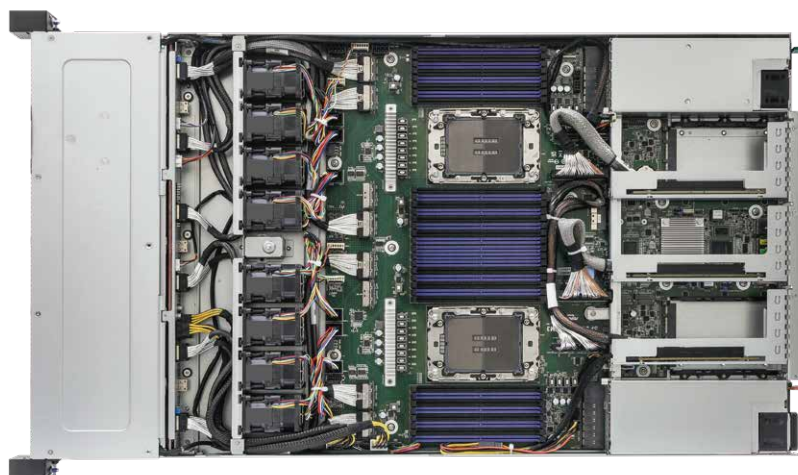
OCP NIC 3.0



PCI-E 5.0

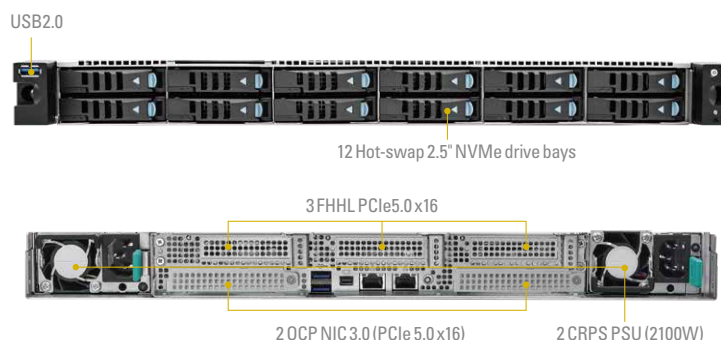


Storage



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	External	12 Hot-swap 2.5" NVMe drive bays
	Internal	2 M-key (PCIe 4.0 x4), support 22110/2280 form factor
Power Supply	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 (USB3.2 Gen1)
Rear IO	RJ45	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 UID w/ LED
Expansion Slots	Rear	1 FHHL PCIe 5.0 x8 1 OCP NIC 3.0 (PCIe 5.0 x16)
Drive Bay/ Storage	External	12 Hot-swap 2.5" NVMe (PCIe 5.0 x4)/SATA/SAS ^{Note1} drive bays
	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



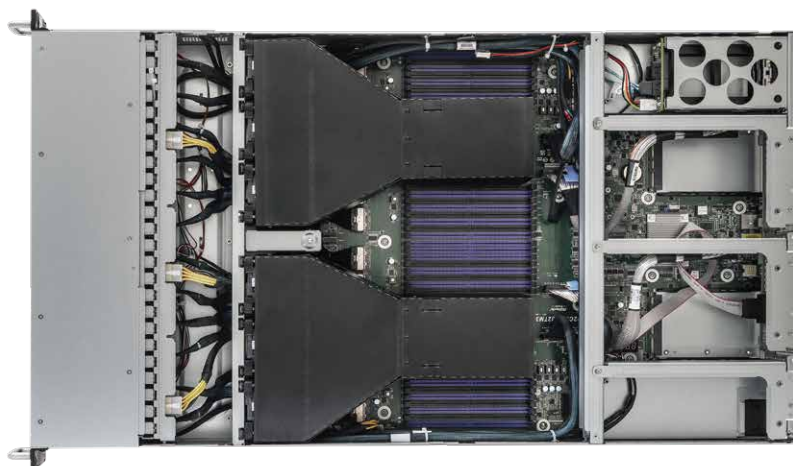
OCP NIC 3.0



PCI-E 5.0

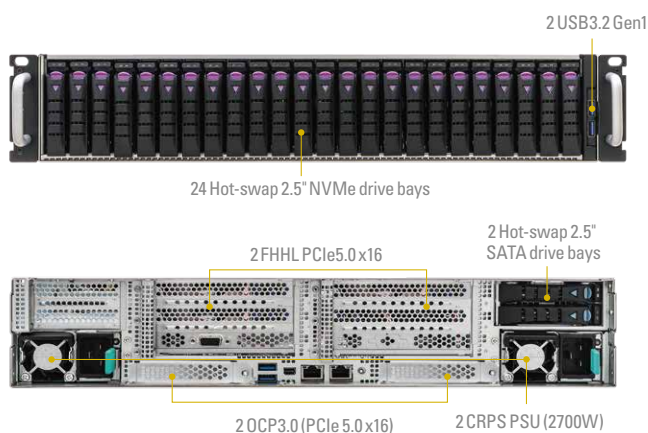


Storage



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)
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.

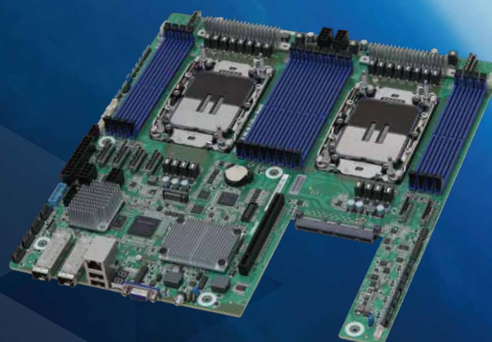


OPEN 19

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



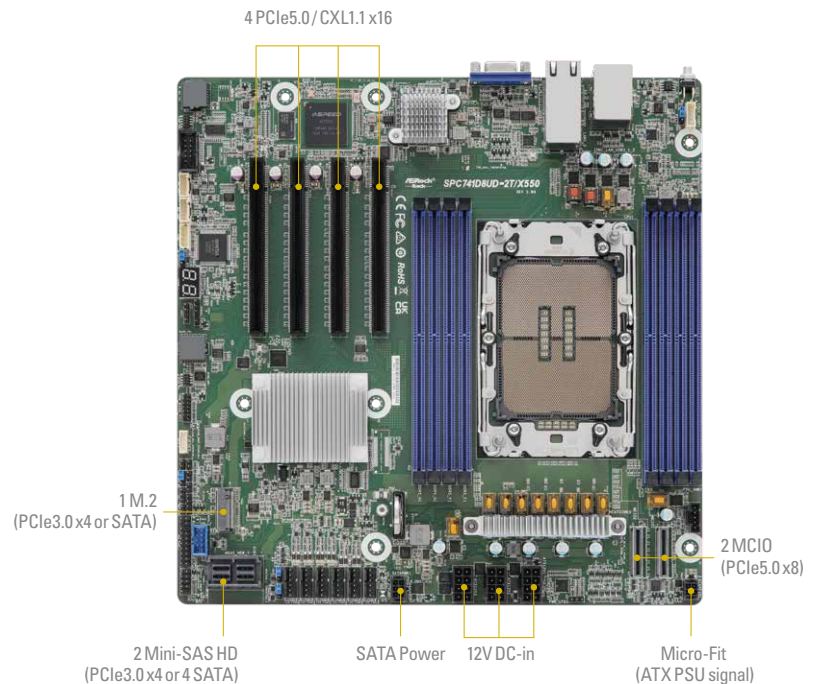
10Gbase-T



4800

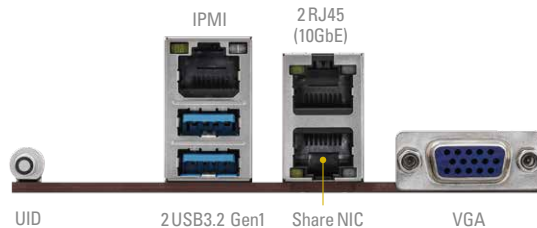


PCI-E 5.0



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	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
	PCIe slot	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]
Expansion	Others	2 MCIO (PCIe5.0 x8) [CPU] 2 Mini-SAS HD (PCIe3.0 x4 or SATA 6Gb/s)
	M.2	1 M-key (PCIe3.0 x4 or SATA 6Gb/s), supports 2280 form factor [PCH]
Storage	SATA port	9 SATA 6 Gb/s: 2 Mini-SAS HD, 1 M.2
	RJ45	2 RJ45 (10GbE) by Intel® X550-AT2
Network Management	BMC	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	2 USB3.2 Gen1 ports: 2 rear Type-A 2 USB2.0 ports: 2 via 9-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA)
	TPM	Supports 13-pin (SPI) TPM modules

SPC741D8-2L2T/BCM

SPC741D8-2T/BCM



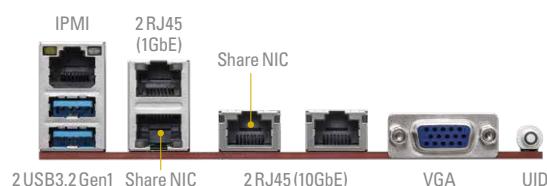
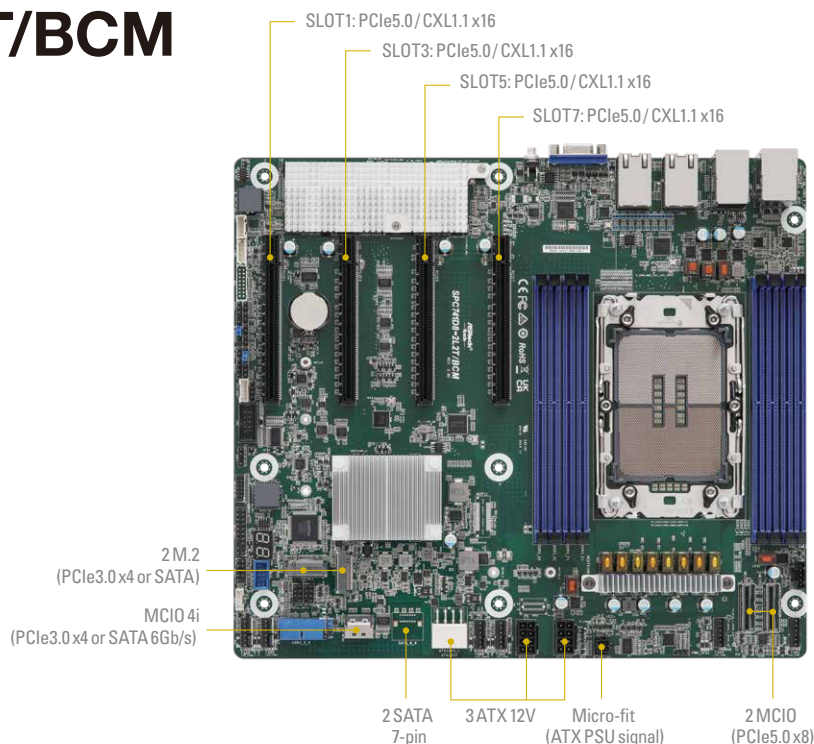
10Gbase-T



4800



PCI-E 5.0



Application

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

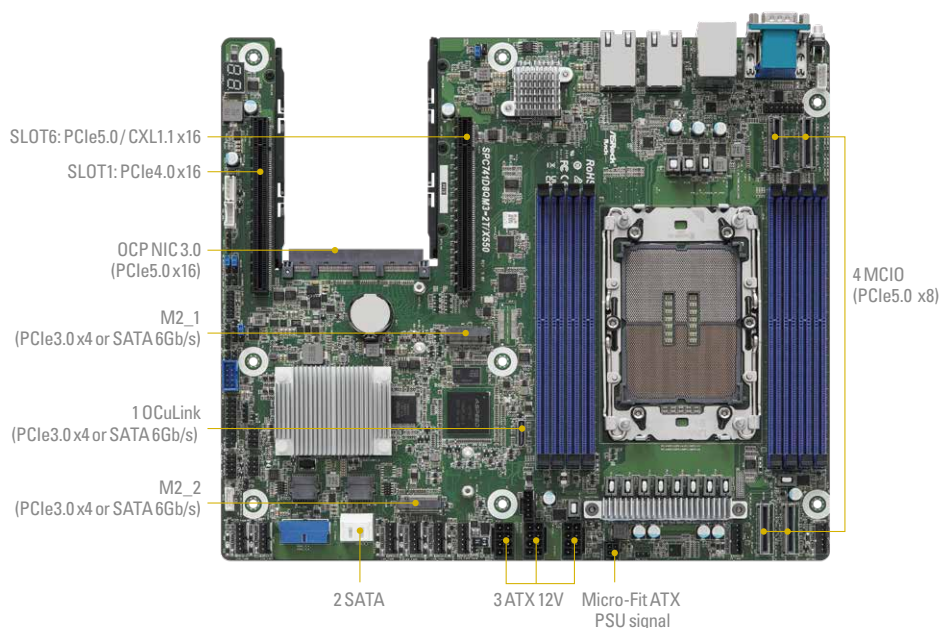
SPC741D8-2L2T/BCM

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	
	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]	
Expansion	Others	1 MCIO 4i (PCIe3.0x4 or SATA 6Gb/s) [PCH] 2 MCIO (PCIe5.0x8) [CPU]	
	M.2	1 M-key (PCIe3.0x4 or SATA 6Gb/s), supports 22110/2280/2242 form factor [PCH] 1 M-key (PCIe3.0x4 or SATA 6Gb/s), supports 22110/2280 form factor [PCH]	
Storage	SATA port	Up to 12 SATA 6Gb/s: 1 MCIO 4i, 8 SATA via optional M2U2_HD_G4 M.2 device	Up to 14 SATA 6Gb/s: 1 MCIO 4i, 8 SATA via optional M2U2_HD_G4 M.2 device, 2 SATA 7-pin
	RJ45	2 RJ45 (10GbE) by Broadcom BCM57416 2 RJ45 (1GbE) by Intel® i210	2 RJ45 (10GbE) by Broadcom BCM57416
Network	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)	
	TPM	Supports 13-pin (SPI) TPM modules	

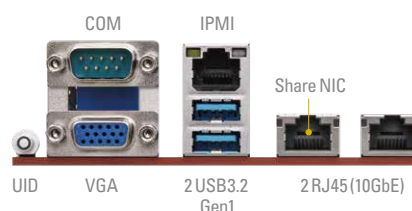
SPC741D8QM3-2T/X550

SPC741D8QM3-NL



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	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	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

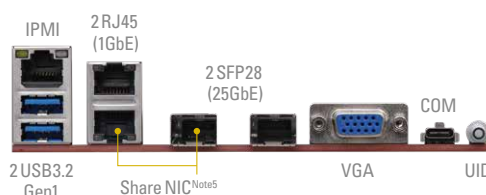
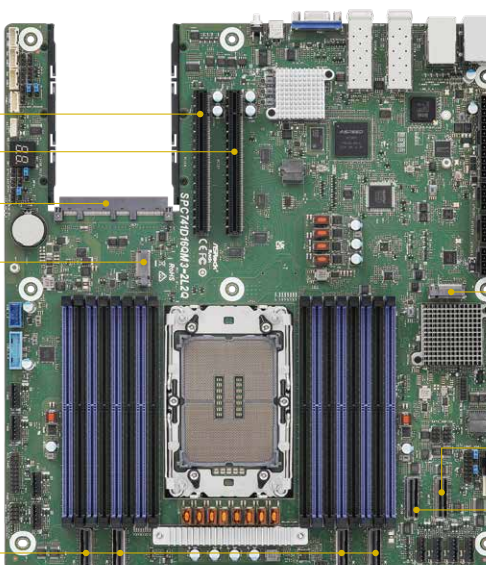


SFP28

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]	
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]	
	SATA port	14 SATA 6Gb/s: 2 MCIO, 2 M.2	
Storage	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	
	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



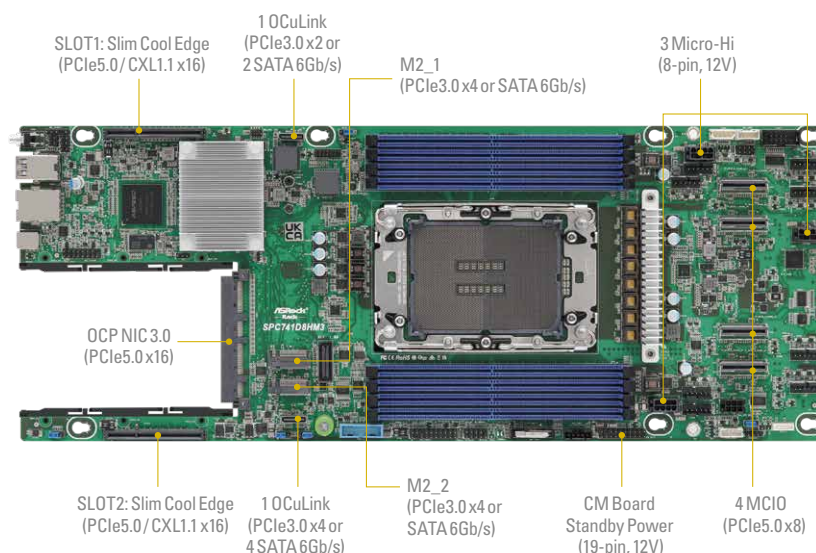
OCP NIC 3.0



4800

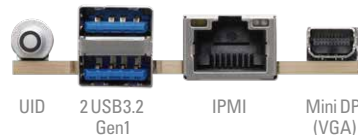


PCI-E 5.0



Application

- Edge server
- Multi-node server



SPC741D8HM3

Form Factor		Half-Width (6.6" x 17")
Processor System	CPU	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
	PCIe slot	SLOT1: Slim Cool Edge (PCIe5.0/CXL1.1 x16) [CPU]
Expansion	Others	SLOT2: Slim Cool Edge (PCIe5.0/CXL1.1 x16) [CPU]
		1 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH]
		1 OCuLink (PCIe3.0 x2 or 2 SATA 6Gb/s) [PCH]
Storage	M.2	4 MCIO (PCIe5.0 x8) [CPU]
		M2_2 (PCIe3.0 x4 or SATA 6Gb/s); supports 22110 form factor [PCH]
		M2_1 (PCIe3.0 x4 or SATA 6Gb/s); supports 2280 form factor [PCH]
	SATA port	Up to 8 SATA 6 Gb/s: 2 OCuLink, 2 M.2
Network	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	2 USB3.2 Gen1 ports: 2 rear Type-A 2 USB3.2 ports: 2 via 19-pin header
	COM port	1 header (9-pin)
	Video	1 Mini DP (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules

SP2C741D16HM3



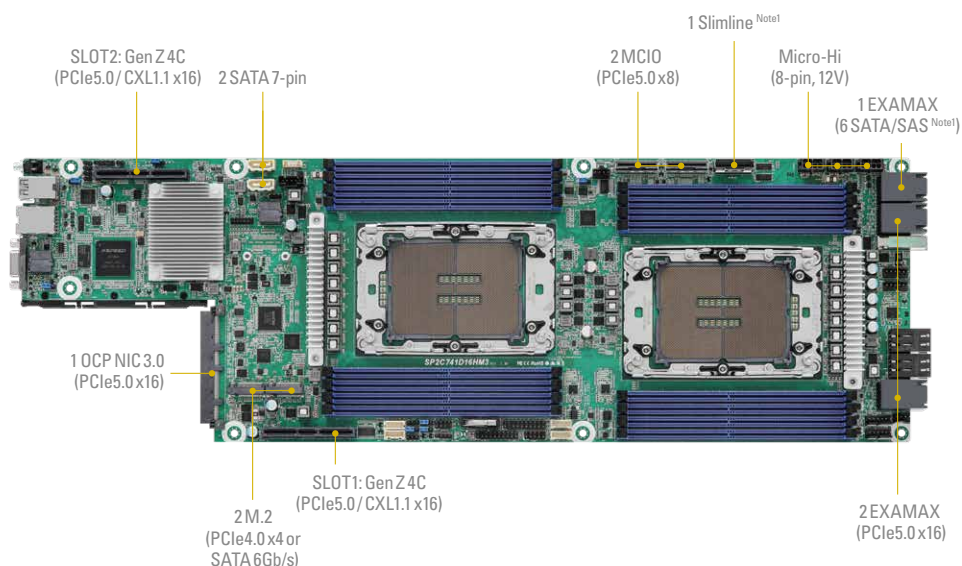
OCP NIC 3.0



4800



PCI-E 5.0



Application

- Multi-node server
- HPC
- HCI



SP2C741D16HM3

Form Factor		Half-width (6.7" x 21")
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	SLOT1: Gen Z 4C (PCIe5.0/CXL1.1 x16) [CPU0] SLOT2: Gen Z 4C (PCIe5.0/CXL1.1 x16) [CPU0]
	Others	2 EXAMAX (PCIe5.0 x16) [CPU1] 2 MCIO (PCIe5.0 x8) [CPU0] 1 Slimline ^{Note1}
Storage	M.2	2 M-key (PCIe4.0 x4 or SATA 6Gb/s), supports 2280 form factor [CPU0]
	SATA port	10 SATA 6 Gb/s: 2 SATA 7-pin, 2 M.2, 1 EXAMAX
Network	RJ45	1 RJ45 ^{Note2} (1GbE) by Intel® i210
	OCP NIC	1 OCP NIC 3.0 (PCIe5.0 x16) [CPU0]
Management	BMC	ASPEED AST2600
	Dedicated IPMI	2 Realtek RTL8211F ^{Note2}
I/O	USB	2 USB3.2 Gen1 ports: 2 rear Type-A
	COM port	1 (3-pin) header
	Video	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



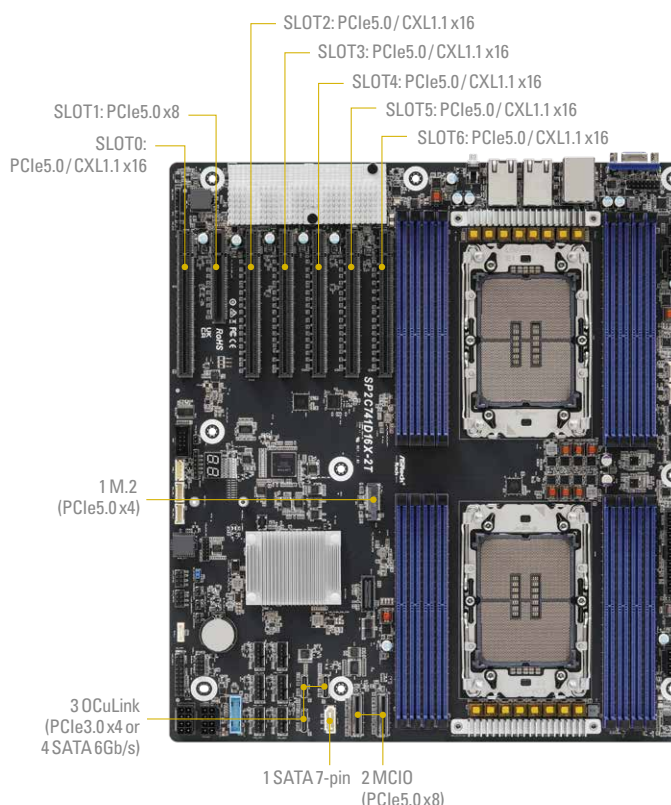
10Gbase-T



4800

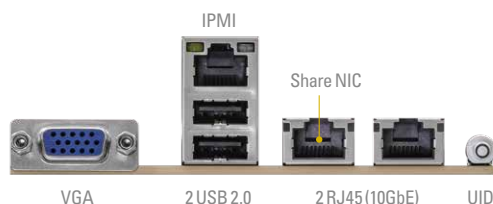


PCI-E 5.0



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: PCIe5.0 x8 [CPU0] SLOT0: PCIe5.0/ CXL1.1 x16 [CPU1]
	Others	3 OCuLink (PCIe3.0 x4 or 4 SATA 6Gb/s) [PCH] 2 MCIO (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

Note1: Extend 10.1mm left

SP2C741D16-2T



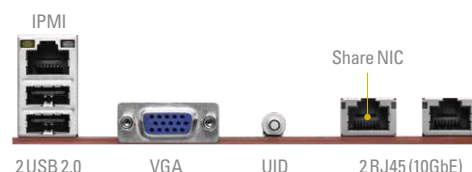
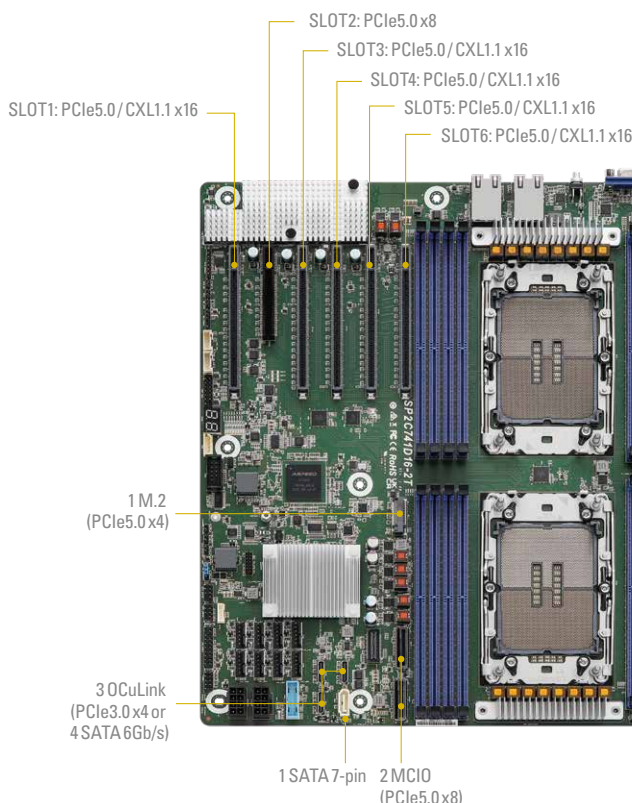
10Gbase-T



4800



PCI-E 5.0



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 MCIO (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



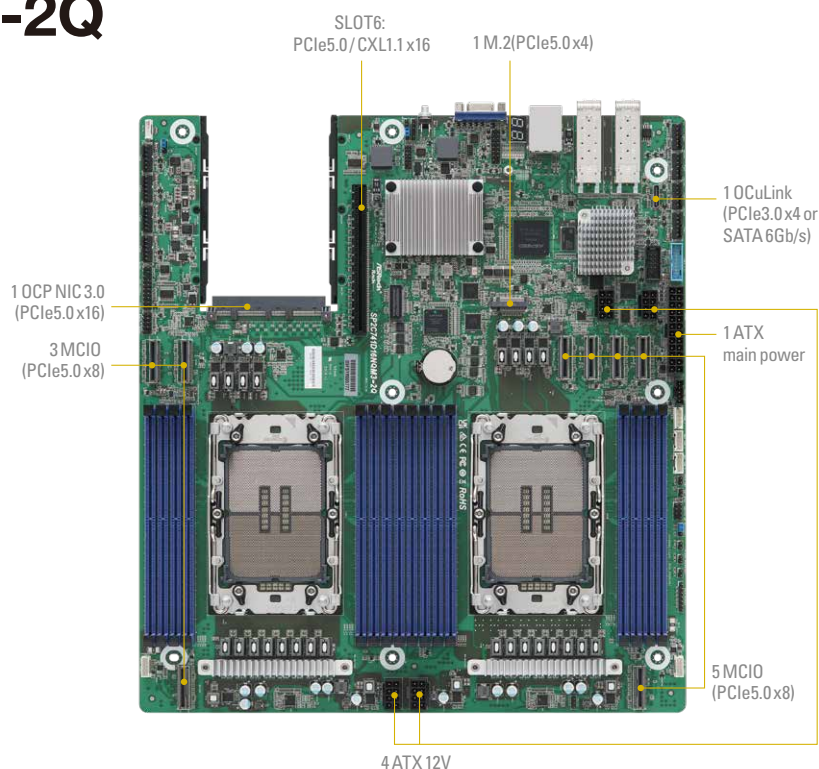
OCP NIC 3.0



SFP28



PCI-E 5.0



Application

- Software-defined application
- HCI



SP2C741D16NQM3-2Q

Form Factor		EEB (12.8" x 14") ^{Note1}
Processor System	CPU	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
	PCIe slot	SLOT6: PCIe5.0/CXL1.1 x16 [CPU1]
Expansion	Others	5 MCIO (PCIe5.0x8) [CPU0] 3 MCIO (PCIe5.0x8) [CPU1] 1 OcuLink (PCIe3.0x4 or SATA 6Gb/s) [PCH]
	M.2	1 M-key (PCIe5.0x4), supports 2280 form factor [CPU0]
Storage	SATA port	4 SATA 6Gb/s: 1 OcuLink
	SFP	2 SFP28 (25GbE) by Broadcom BCM57414
Network	OCP NIC	1 OCP NIC 3.0 (PCIe5.0x16) [CPU1]
	BMC	ASPEED AST2600
Management	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
	USB	2 USB3.2 Gen1 ports: 2 via 19-pin header 2 USB2.0 ports: 2 rear Type-A
I/O	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
	TPM	Supports 13-pin (SPI) TPM modules

Note1: Extend 9.6mm left and 10.7mm right

SP2C741D32TM3



PCI-E5.0

OCP NIC 3.0

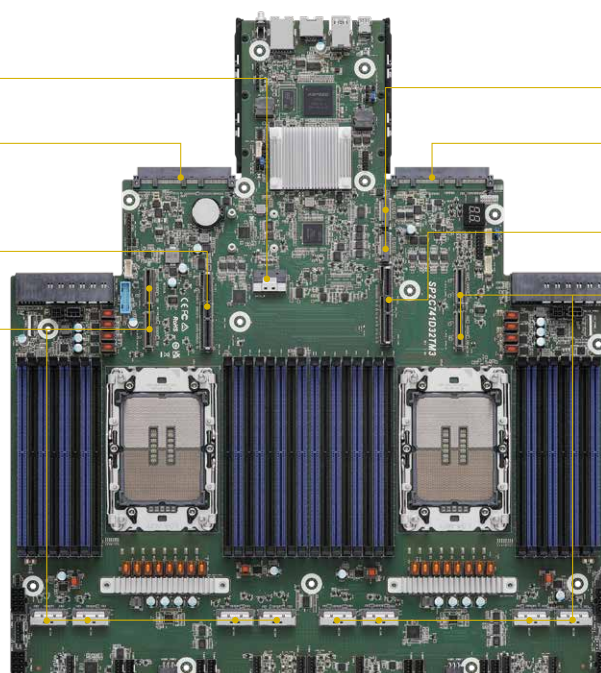


4400

1 Slimline (8 SATA 6Gb/s)

1 OCP NIC 3.0
(PCIe5.0 x16)1 Gen Z 4C
(PCIe5.0/CXL1.1 x16)6 MCIO
(PCIe5.0 x8)

2 M.2 (PCIe4.0)

1 OCP NIC 3.0
(PCIe5.0 x16)1 Gen Z 4C
(PCIe5.0/CXL1.1 x16)6 MCIO
(PCIe5.0 x8)

Application

- Software-defined application
- E-commerce
- HCI



SP2C741D32TM3

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

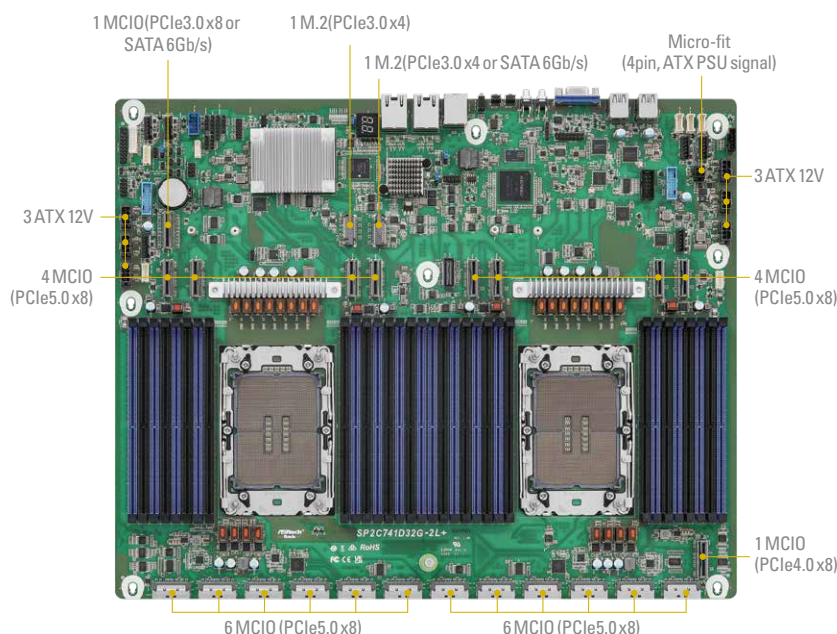
SP2C741D32G-2L+



PCI-E5.0



4400



Application

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



SP2C741D32G-2L+

Form Factor		Proprietary (16.93" x 13.79")
Processor System	CPU	1+1 Socket E (LGA 4677); Supports 5 th & 4 th Gen Intel® Xeon® Scalable processors
	PCH	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
	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	ASPEED AST2600
	Dedicated IPMI	1 RJ45 via Realtek RTL8211F
I/O	USB	8 USB3.2 Gen1 ports: 4 rear Type-A, 4 via 19-pin header
	COM port	1 (9-pin) header
	Video	1 DB15 (VGA), 1 (15-pin) header
Security	TPM	Supports 13-pin (SPI) TPM modules



Reliable Server
Advancing Technology
Considerable Design
Knowledgeable Professional

ASRock Rack Incorporation

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

ASRock America Inc.

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

ASRock Europe B.V.

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



www.asrockrack.com

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



@ASROCKRACK



ASRock Rack Inc.