

4th Gen. 2 Socket
 12 x 3.5" Bays
 4 PCIe 5.0 Slots
 2x2.5GbE
 2x800W PSU



12 x 3.5" SATA/SAS Hot Swap Bays



1+1 PSU 2x2.5" 2xLP Slots 2x FH RISER x16 Slots

Eagle Stream Sapphire Rapids 2U12S16-X4677B



2U2P Eagle Stream 4 x PCIe 5.0, 16 DDR5
 12 x 3.5" SATA/SAS with 2 x 2.5GbE + IPMI

- Dual LGA4677 socket
- (2) 4rd Gen Intel® Xeon® Scalable Processors
- (8+8) DDR5 DIMM slots, Support up to up to 2,048GB RDIMM/3DS RDIMM DDR5 4800/4400/4000 memory
- (12) 3.5" + (2) 2.5" hot-swap SATA/SAS HDDs drive bays
- (2) 2280 NVMe M.2 slots
- (2) FH/10.5"L/DW PCIe Gen.5 x16 + (2) HH/HL PCIe 5.0 x8
- (2) 2.5GbE + (1) IPMI port
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 800W Redundant PSU, 80+ Platinum

4th Gen. Eagle Stream 2U12S16-X4677B



Specifications

System View

Front USB Board
USB

Dual Sockets
(2) 4th Gen. Intel® Xeon® Scalable Processor
(8)+(8) DIMM slots supporting
(2) 2.5GbE ports +
(1) GbE dedicated for IPMI

(12) 3.5" Hot-Swap tool-less drive bays

Front panel board

HDD Backplane

(1+1) 800W PSU, 80 + Platinum

Pre-install riser card
(2) HH/HL PCIe Gen.5 x16 Riser

Expansion Slots
(2) PCI-E Gen.5 x8 HH LP Slots

System Fan
(4) Hot Swap fans

System	Form Factor	2U Rackmount
	Chassis	2U12A
	Dimension (D x W x H)	27.99" x 17.59" x 3.43" (711.35 x 447 x 87mm)
	Motherboard	C741A16L2
	Motherboard Notification	# The motherboard not sold separately
	Gross Weight	33.1 kg (73 lbs)
Front Panel	Net weight	20.3 kg (44.8 lbs)
	Board Dimension	Prop. 14.18" x 12.16" (360.2 x 308.8mm)
	Buttons	(1) UID / (1) PWR w/ LED / (1) RST
	LEDs	(1) UID / (2) LAN / (1) System Event
	I/O Ports	(2) USB 3.2 Gen.1 ports
	External Drive Bay	Q'ty / Type
HDD backplane support		(12) SATA 6Gb/s / SAS 12Gb/s / (2) Rear SAT2
Supported HDD Interface		SAS 12Gb/s /SATA 6Gb/s /NVMe
Notification		The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact our technical support if a discrete SAS HBA/RAID adapter is required.
System Cooling Configuration	FAN	(4) 8038 How Swap fans
Power Supply	Type	1+1 Redundant
	Input Range	AC 100-240V
	Efficiency	80 plus Platinum
	Output Watts	800 Watts, Optional 1200W, 2000W
Processor	Redundancy	1+1
	Q'ty / Socket Type	(2) LGA4677
	Supported CPU Series	4th Gen. Intel Xeon Scalable Processors
Chipset	Thermal Design Power (TDP) wattage	Max up to 350W (TDP)
	PCH	Intel C741
Memory	Supported DIMM Qty	(8)+(8) DIMM slots
	DIMM Type / Speed	RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC / 3DS RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC
	Capacity	Up to 2,048GB RDIMM/3DS RDIMM DDR5 4800/4400/4000 memory
	Memory channel	8 Channels per CPU
	Memory voltage	1.1V
Expansion Slots	PCIe	(2) PCIe Gen.5 x16 slot / (2) PCIe Gen.5 x8 slot
	Pre-installed Riser Card (PCIe Gen.5)	(2) riser cards for (2) FH/10.5"/L/DW PCIe 5.0 x16 (2) HH/HL Low Profile PCIe 5.0 x8 slots
	Others:	(4) PCI-E x8 M.2 for NVMe
LAN	Port Q'ty	(2) 2.5GbE ports + (1) GbE dedicated for IPMI
	Controller	Intel i226
	PHY Controller	Realtek RTL8211F for IPMI

Storage	Type	Connector	(2) Mini-SAS (10) SATA
		Controller	Intel C741
		Speed	6Gb/s for SATA, 12Gb/s for SAS
		RAID	RAID 0/1/10/5 (Intel RSTe)
Storage (Optional)	Storage NVMe	Connector (M.2)	(2) 2280 (by PCIe Gen.4 interface)
		Connector (U.2)	(4) M.2 for (8) NVMe Options
Graphic	VROC Support	Optional	
	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
Input /Output	Chipset	Aspeed AST2600	
	USB	Rear: (2) USB3.2 + (2) USB 2.0 Front: (2) USB 3.2	
	VGA	(1) D-Sub 15-pin port	
TPM (Optional)	RJ-45	(2) 2.5GbE ports + (1) dedicated GbE for IPMI	
	TPM Socket	Optional for Infineon TPM 2.0	
System Monitoring	Interface	SPI	
	Chipset	Aspeed AST2600	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Temperature	Monitors temperature for CPU & memory & system environment	
Server Management	LED (On system front panel)	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator	
	Others	Watchdog timer support	
	Onboard Chipset	Onboard Aspeed AST2600	
BIOS	AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
Operating System	Brand / ROM size	AMI / 64MB	
	Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/Wake on LAN / ACPI sleeping states S0, S5	
Regulation	OS supported list	Please refer to our AVL support lists.	
	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	VCCI	Class A	
Operating Environment	RCM	Class A	
	CB/LVD	Yes	
	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)	
RoHS	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)	
	In/Non-operating Humidity	90%, non-condensing at 35° C	
	RoHS 6/6 Complaint	Yes	

(Specifications are subject to change without notice. Items pictured may only be representative.)