EG520-E11-RS10-R

Intel Single-Socket, 2U Edge Server

intel.

Form Factor / **2U**   CPU Number / **1**   Memory Number / **8**

ASUS EG520-E11 was designed for Short-depth chassis and rear access design for industrial edge workloads
2U Intel single-socket compact edge server with redundant AC PSU for datacenter or server room environments
Scalable expansion with support for 5 FHHL cards for GPUs, 4 SATA, 6 SATA/NVME and 2 M.2.

FEATURE

- Up to 10 storage bays in short-depth chassis
- Support up to 5x FHHL PCIe cards in short-depth chassis
- 8 x DDR5 5600 Mhz DIMM support
- 2 x M.2 socket support
- Powered by single-socket 5th Gen Intel Scalable processors.
- CPU maximum TDP of up to 350W with 8 DIMMs and support.
- 2 x Intel X710 10GbE Base-T ports+1 x Management port

Target market

- Multi-Access Edge Computing
- Virtual Machines
- Network Function Virtualization
- Industrial usage
- Edge AI Inferencing

1. VGA port
2. Management LAN port
3. Dual 10G LAN port
4. RJ45 Console port

Powered by 5th Gen Intel Xeon SP processors

The 5th Gen Intel® Xeon® Scalable Processors are designed to accelerate performance across the fastest-growing workloads that businesses depend on today Built-in accelerators improve performance across AI, analytics, networking, storage, and HPC. ASUS EG520-E11 series supports single Intel Scalable processors to enable up to 8 DIMM slots, all flash and PCIe Gen 5.0

NVIDIA GPU Support

Support up to 5x FHHL PCIe cards in short-depth chassis in 2U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

Up to 10 storage bays in short-depth chassis

6 x SATA/NVME (Front) + 4 x SATA (Rear)

PCIe 5.0 Ready

PCI Express® (PCIe®) 5.0 delivers 32GT/s bandwidth, which is twice the speed of PCIe 4.0, and offers lower power consumption, better land scalability and backwards compatibility.
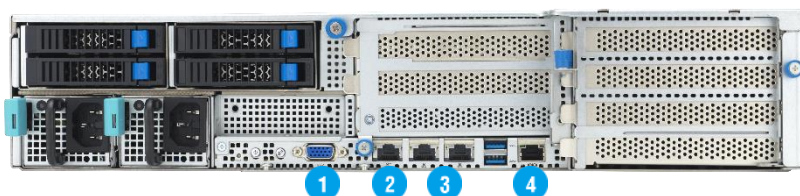
Enhanced Security

PFR FPGA as the platform Root-of-Trust solution for firmware resiliency Trusted Platform Module 2.0 (TPM 2.0) to secure hardware through integrated cryptographic keys and offer regular firmware update for vulnerabilities.

Comprehensive IT infrastructure management solution

ASUS EG520-E11 series features an embedded ASMB11-iKVM (BMC, AST2600) and is bundled with ASUS Control Center to provide comprehensive out-of-band and in-band management capability.

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SPECIFICATION

Processor		1 x Socket E (LGA 4677) 5th Gen Intel® Xeon® Processor Scalable Family (Up to 350W) or 4th Gen Intel® Xeon® Processor Scalable Family (Up to 350W)
Memory	Total Slots	8 (8-channel, 1 DIMM per channel)
	Capacity	Up to 2TB
	Memory Type	DDR5 5600 RDIMM/LRDIMM/LRDIMM 3DS with 5th Gen Intel® Xeon® Processor DDR5 4800 RDIMM/LRDIMM/LRDIMM 3DS with 4th Gen Intel® Xeon® Processor
	Memory Size	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
Expansion Slots	Total Slots	Up to 5x FHHL PCIe cards
	Slot Type	3 x PCIe G5 x16 link (FHHL)or 3 x PCIe G5 x16/x8/x8 link (FHHL) + 2 x PCIe G5 x8 link (FHHL)
Storage Bays		6 x SATA/NVME (Front) + 4 x SATA (Rear) 2 x M.2 (22110/2280, PCIe)
Networking	LAN	2 x X710 10G LAN Ports 1 x Dedicated management port (BMC, AST2600)
Security		Optional TPM-SPI module Optional PFR module(by request)
Front I/O Ports		2 x USB 3.2 Gen1 ports 1 x VGA port
Rear I/O Ports		1 x VGA port 2 x USB 3.2 Gen1 ports 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt. LAN port 1 x RJ-45 Console port
Switch/LED		Front Switch/LED: 1 x Power Switch w/ LED 1 x Location Switch w/ LED 1 x Message LED 1 x reset button Rear Switch/LED: 1 x Power Switch (w/ LED) 1 x Location Switch (w/ LED) 1 x Message LED 2 x LAN LED 1 x HDD LED 1 x reset button
OS Support		*Please find the latest OS support from https://www.asus.com/event/Server/OS_support_list/OS.html
Management Solution	Software	ASUS Control Center (in-band)
	Out of Band Remote Management	ASMB11-iKVM (BMC, AST2600)
Dimension		430mm x 438.5mm x 87mm(2U)
Net Weight Kg		20.5kg (approximate) (CPU, DRAM & HDD not included)
Gross Weight Kg		22kg (approximate) (CPU, DRAM & HDD not included, Packing include)
Power Supply (following different configuration by region)		1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply 2000W 54.5MM SLIM Titanium* Power Supply (TBD) *Titanium Power Supply is planning
Environment		Operation temperature: 10℃ ~ 55℃ (Selected configuration, non GPU SKU) Non operation temperature: -40℃ ~ 60℃ Non operation humidity: 20% ~ 90% (Non condensing) Note: Operating Temperature based on configurations Certain key parts may be supported only at 35°C Ambient Temperature