

EG520-E11-RS6-F

Intel Single-Socket, 2U Edge Server



ASUS EG520-E11 was designed for Short-depth chassis and front access design for space-limited edge environment

2U Intel single-socket compact edge and 5G server with front I/O access, wide temperature, 2 FHHL card, 3 FHFL cards and 2 M.2.

Redundant DC PSU and support for critical environment temperature. Design for NEBS and supports Time-sync NIC and FEC FPGA for teleco applications

FEATURE

- 8 x DDR5 5600 Mhz DIMM support
- 2 x M.2 socket support
- Powered by single-socket 5th Gen Intel Scalable processors.
- 5 x PCIe expansion in 2U rack sever.
- Support GPUs in short-depth chassis
- CPU maximum TDP of up to 250W or 225W EE SKUs with 8 DIMMs and support.
- Front access for easy maintenance
- 2 x Intel 10GbE Base-T ports+ 1 x Management port
- Design for NEBS

Target market

- 5G Core and Edge
- Multi-Access Edge Computing
- Open-RAN DU/CU
- Virtual Machines
- Network Function Virtualization
- Industrial usage
- Edge AI Inferencing

1. 2 x E1.S modules*
2. VGA port
3. Management LAN port5
4. Dual 10G LAN port
5. RJ45 Console port

Powered by 5thGen Intel Xeon SP processors and supports Intel vRAN Boost technology*

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

Short-depth chassis and front access design for space-limited, edge environments Supports Time-sync NIC and FEC FPGA for telecommunications applications

NVIDIA GPU Support

Up to 2 dual-slot GPU in 2U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

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.



*Optional, cannot be purchased separately

Please select it when purchasing order and we will have assembling and standard testing before ship

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SPECIFICATION

Processor		1 x Socket E (LGA 4677) 5th Gen Intel® Xeon® Processor Scalable Family (Up to 250W or 225W EE SKUs) or 4th Gen Intel® Xeon® Processor Scalable Family (Up to 250W or 225W EE SKUs)
Memory	Total Slots	8 (8-channel, 1 DIMM per channel)
	Capacity	Maximum 2048GB
	Memory Type	4th:DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th:DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC)
	Memory Size	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
Expansion Slots	Total Slots	5
	Slot Type	1x FHHL card (x16) <i>or</i> 2x FHHL cards (x8/x8)+ 2x FHFL cards (x16/x16) <i>or</i> 3x FHFL card (x16/x8/x8)
Storage Bays		4x 2.5" Front Hot-swap drive bays(NVME/SATA)+ 2x E1.S (optional for E1.S SKU) 2x M.2 (22110/2280, Gen5 x4 Link)
Networking	LAN	2 x 10GbE LAN port 1 x Dedicated management port (BMC, AST2600)
Security		Optional TPM-SPI module Optional PFR module(by request)
Front 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
Rear I/O Ports		2 x USB 3.2 Gen1 ports 1 x VGA port
Switch/LED		Front 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 Rear Switch/LED: 1 x Power Switch w/ LED 1 x Location Switch w/ LED 1 x Message 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		399*mm x 438.5mm x 87mm(2U) 15.71" x 17.26" x 3.43" *ear to rear wall
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 AC/DC 1300W 50.5MM SLIM Platinum Power Supply
Environment		Operation temperature: 0°C ~ 55°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing) Note: Operating Temperature based on configurations