

# EG520-E11-RS6-R

## Intel Single-Socket, 2U Edge Server



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 2 FHHL card, 3 FHFL cards, 4 SATA, 2 SATA/NVME and 2 M.2.

### 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 350W with 8 DIMMs and support.
- 2 x Intel 10GbE Base-T ports + 1 x Management port

### Target market

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

### Powered by 5<sup>th</sup> 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

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.

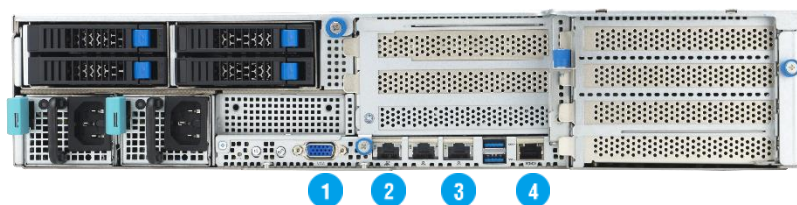
### Enhanced Security

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.

1. VGA port
2. Management LAN port J45
3. Dual 10G LAN port
4. RJ45 Console port



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## SPECIFICATION

<b>Processor</b>		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)
<b>Memory</b>	<b>Total Slots</b>	8 (8-channel, 1 DIMM per channel)
	<b>Capacity</b>	Maximum 2048GB
	<b>Memory Type</b>	4th:DDR5 4800 MHz RDIMM/3DS RDIMM (1DPC) 5th:DDR5 5600 MHz RDIMM/3DS RDIMM (1DPC)
	<b>Memory Size</b>	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total Slots</b>	5
	<b>Slot Type</b>	1x FHHL card (x16) <i>or</i> 2x FHHL (x8/x8)+ 2x FHFL cards (x16/x16) <i>or</i> 3x FHFL cards (x16/x8/x8)
<b>Storage Bays</b>		2x 2.5" Front Hot-swap drive bays(NVME/SATA)+ 4x 2.5" Rear Hot-swap drive bays (SATA) 2x M.2 (22110/2280, Gen5 x4 Link)
<b>Networking</b>	<b>LAN</b>	2 x 10GbE LAN port 1 x Dedicated management port (BMC, AST2600)
<b>Security</b>		Optional TPM-SPI module Optional PFR module(by request)
<b>Front I/O Ports</b>		2 x USB 3.2 Gen1 ports 1 x VGA port
<b>Rear I/O Ports</b>		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
<b>Switch/LED</b>		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
<b>OS Support</b>		*Please find the latest OS support from <a href="https://www.asus.com/event/Server/OS_support_list/OS.html">https://www.asus.com/event/Server/OS_support_list/OS.html</a>
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (in-band)
	<b>Out of Band Remote Management</b>	ASMB11-iKVM (BMC, AST2600)
<b>Dimension</b>		430mm x 438.5mm x 87mm(2U) 16.93" x 17.26" x 3.43"
<b>Net Weight Kg</b>		20.5kg (approximate) (CPU, DRAM & HDD not included)
<b>Gross Weight Kg</b>		22kg (approximate) (CPU, DRAM & HDD not included, Packing include)
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant 1300W 50.5MM SLIM Platinum Power Supply 2000W 54.5MM SLIM Titanium* Power Supply (planning)
<b>Environment</b>		Operation temperature: 10°C ~ 55°C (Selected configuration, non GPU SKU) Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% ( Non condensing) Note: Operating Temperature based on configurations Certain key parts may be supported only at 35°C Ambient