

# EG500-E11-RS2-F

## Intel Single-Socket, 1U Edge Server



ASUS EG500-E11 was designed for Short-depth chassis and front access design for space-limited edge environment  
1U Intel single-socket compact edge and 5G server with front I/O access, wide temperature, 1 FHHL card, 2 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.
- 3 x PCIe expansion in 1U rack sever.
- Support GPUs in short-depth chassis
- CPU maximum TDP of up to 205W or 225W EE SKUs with 8 DIMMs and support.
- Front access for easy maintenance
- 2 x Intel X710 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 5<sup>th</sup>Gen 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 EG500-E11 series supports single Intel Scalable processors to enable up to 8 DIMM slots, all flash and PCIe Gen 5.0

\*Xeon SP with Intel vRAN Boost support based upon Intel official schedule

### 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 1 dual-slot GPU in 1U system and optimized acceleration for workloads across cloud, data center and for hybrid cloud environment

### PCIe 5.0 Ready

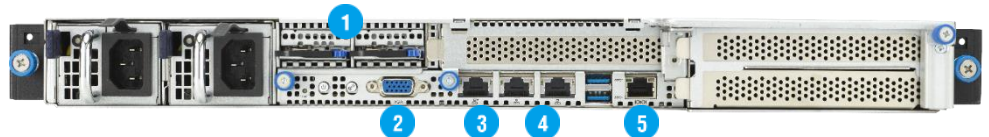
PCI Express® (PCIe®) 5.0 delivers 32GT/s bandwidth, which is twice the speed of PCIe 4.0, and offers lower power consumption, better land scalability and backwards compatibility.

### 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 EG500-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  
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## SPECIFICATION

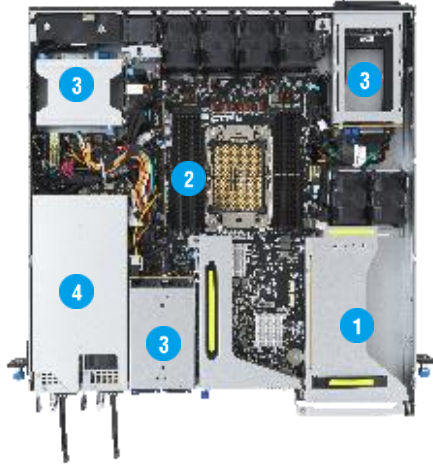
<b>Processor</b>		1 x Socket E (LGA 4677) 5th Gen Intel® Xeon® Processor Scalable Family (Up to 205W or 225W EE SKUs)
<b>Memory</b>	<b>Total Slots</b>	8 (8-channel, 1 DIMM per channel)
	<b>Capacity</b>	Up to 2TB
	<b>Memory Type</b>	DDR5 5600 RDIMM/LRDIMM/LRDIMM 3DS
	<b>Memory Size</b>	256GB, 128GB, 64GB, 32GB, 16GB *Refer to ASUS server AVL for the latest update
<b>Expansion Slots</b>	<b>Total Slots</b>	3
	<b>Slot Type</b>	1 x PCIe G5 x16 link (FHHL) 2 x PCIe G5 x16 link (FHFL)
<b>Storage Bays</b>		2x E1.S (optional) + 2x Int. SATA (optional) for 650W/Short PSU 2x E1.S (optional) for 1300W/Long PSU *E1.S is optional for E1.S SKU
<b>Networking</b>	<b>LAN</b>	2 x M.2 (22110/2280, Gen5 x4 Link) 2 x X710 10G LAN Ports 1 x Dedicated management port (BMC, AST2600) (Supporting Windows/Linux OS; Both X710 and Dedicated ports support management)
<b>Security</b>		Optional TPM-SPI module Optional PFR module(by request)
<b>Front I/O Ports</b>		1 x VGA port 2 x USB 3.2 Gen1 ports (Supporting Windows/Linux OS) 2 x RJ-45 10G LAN port 1 x RJ-45 Mgmt. LAN port 1 x RJ-45 Console port
<b>Rear I/O Ports</b>		2 x USB 3.2 Gen1 ports (Supporting Windows/Linux OS) 1 x VGA port
<b>Switch/LED</b>		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
<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>		430*mm (D) x 438.5mm (W) x 43.7mm (H) 16.93" (D) x 17.26" (W) x 1.72" (H) *ear to rear wall depth: 399mm (15.71")
<b>Net Weight Kg</b>		11.85kg (approximate)
<b>Gross Weight Kg</b>		14kg (approximate)
<b>Power Supply (following different configuration by region)</b>		1+1 Redundant AC/DC (Single PSU SKU is for special request) 650W 50.5MM SLIM Platinum Power Supply (AC input: 100-240Vac / 50~60Hz) 1300W 50.5MM SLIM Platinum Power Supply (AC input: 100-240Vac / 50~60Hz) *Titanium Power Supply is planning *-48Vdc with 650W/1300W DC PSU
<b>Environment</b>		Operation temperature: 0°C ~ 55°C Non operation temperature: -40°C ~ 70°C Note: Operating Temperature based on configurations IP20 standard compliance



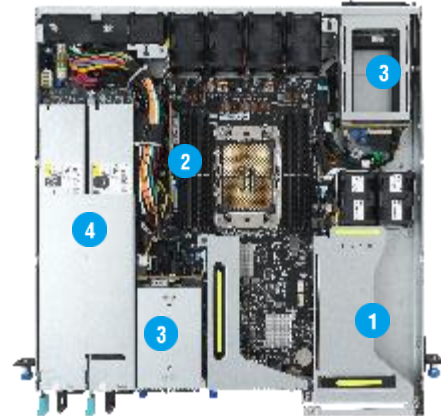
# Top view



### EG500-E11-RS4-F



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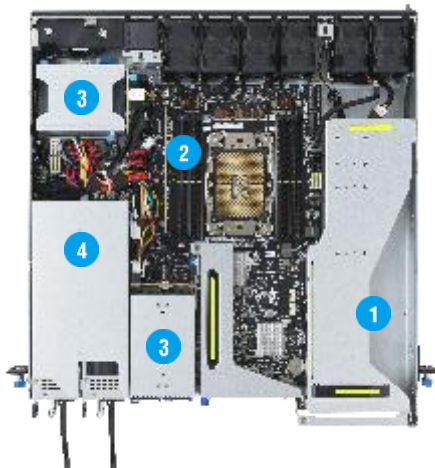
## Front I/O, External 2.5" Bays

- 1 3x FHHL cards (x16/x16x16)
- 2 2x M.2
- 3 2x E1.S\* + 2x Internal SATA\* + 2x external SATA(Rear)
- 4 Redundant AC/DC PSU (650W PSU)

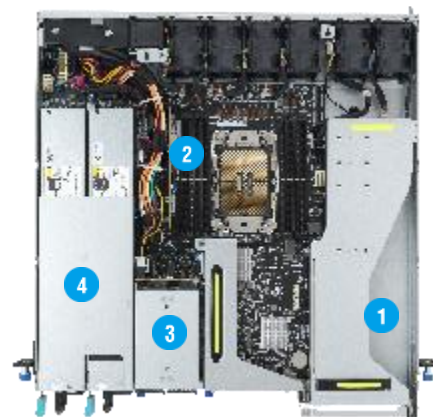
## Front I/O, External 2.5" Bays

- 1 3x FHHL cards (x16/x16/x16)
- 2 2x M.2
- 3 2x E1.S module\* + 2x external SATA(Rear)
- 4 Redundant AC/DC PSU (1300W PSU)

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## Front I/O, FHFL Card

- 1 1x FHHL cards (x16)+ 2x FHFL cards (x16/x16)
- 2 2x M.2
- 3 2x E1.S module\* + 2x Internal SATA\*
- 4 Redundant AC/DC PSU (650W PSU)

## Front I/O, FHFL Card

- 1 1x FHHL card (x16)+ 2x FHFL cards (x16/x16)
- 2 2x M.2
- 3 2x E1.S module\*
- 4 Redundant AC/DC PSU (1300W PSU)

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