EG500-E11-RS4-R
Intel Single-Socket, 1U Edge Server

ASUS EG500-E11 was designed for Short-depth chassis and rear access design for industrial edge workloads.
1U Intel single-socket compact edge server with redundant AC PSU for datacenter or server room environments.
Scalable expansion with support for 3 FHHL cards for GPUs, 2 internal SATA (650W/short PSU only), 2 external SATA/Nvme, 2 M.2 and 2 E1.S.

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

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 server.
• Support GPUs in short-depth chassis.
• CPU maximum TDP of up to 350W with 8 DIMMs and support.
• 2 x Intel X710 10GbE Base-T ports+1 x Management port

Powering 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 EG500-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 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.

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

*Optional, cannot be purchased separately. Please select it when purchasing order and we will have assembling and standard testing before ship.
### Specification

#### Processor
- 1 x Socket E (LGA 4677)
- 5th 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
- **Memory Size**: 256GB, 128GB, 64GB, 32GB, 16GB
  
  *Refer to ASUS server AVL for the latest update

#### Expansion Slots
- **Total Slots**: 3
- **Slot Type**: 3 x PCIe G5 x16 link (FHHL)

#### Storage Bays
- **Total Slots**: 2x E1.S (optional) + 2x Int. SATA (optional) + 2x ext. SATA for 650W/Short PSU
- **Slot Type**: 2x E1.S (optional) + 2x ext. SATA for 1300W/Long PSU

#### Networking
- **LAN**: 2 x X710 10G LAN Ports
- **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 43.7mm

#### Net Weight Kg
- 15.5kg (approximate) (CPU, DRAM & HDD not included)

#### Gross Weight Kg
- 17kg (approximate) (CPU, DRAM & HDD not included, Packing include)

#### Power Supply
- 1+1 Redundant
- 650W 50.5MM SLIM Platinum Power Supply
- 1300W 50.5MM SLIM Platinum Power Supply
  
  *Titanium Power Supply is planning

#### Environment
- **Operation temperature**: 10°C ~ 35°C
- **Non operation temperature**: -40°C ~ 60°C
- **Non operation humidity**: 20% ~ 90% (Non condensing)
- **Note**: Operating Temperature based on configurations
Front I/O, External 2.5” Bays

**EG500-E11-RS4-R**
1. 3x FHHL cards (x16/x16/x16)
2. 2x M.2
3. 2x E1.S module* + 2x Internal SATA* + 2x external SATA/NVME
4. Redundant AC/DC PSU (650W PSU)

**EG500-E11-RS2-R**
1. 1x FHHL card (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

**EG500-E11-RS4-R**
1. 3x FHHL cards (x16/x16/x16)
2. 2x M.2
3. 2x E1.S module* + 2x external SATA/NVME
4. Redundant AC/DC PSU (1300W PSU)

**EG500-E11-RS2-R**
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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