

MECS-7210

2U 19" Edge Server with Intel® Xeon® Scalable Silver/Gold Processors for 5G mobile edge computing infrastructure deployment

Features

- Up to 2 Gen1 or Gen2 Intel® Xeon® Scalable Processors
- 16x DDR4 2666 ECC REG memory up to 512GB
- 2x 2.5" SATA bays
- 3x M.2 interfaces on board
- 2x PCIe x16 Gen3 FHFL SW/DW interfaces
- TPM 1.2/ 2.0 module
- 420mm depth 2U 19" rackmount form factor
- Built-in Intel® QAT support

Preliminary



Specifications

• CPU / Chipset / Memory

CPU

Up to 2x Gen1 or Gen2 Intel® Xeon® Scalable Processors up to 125W TDP, including:

Intel Xeon® Silver 4116 Processor 2.10 GHz (12C,85W)
 Intel Xeon® Silver 4210 Processor 2.20 GHz (10C,85W)
 Intel Xeon® Silver 4214 Processor 2.20 GHz (12C,85W)
 Intel Xeon® Silver 4216 Processor 2.10 GHz (16C,100W)
 Intel Xeon® Gold 6130 Processor 2.10 GHz (16C,125W)
 Intel Xeon® Gold 6230 Processor 2.10 GHz (20C,125W)
 Intel Xeon® Gold 6238T Processor 1.90 GHz (22C,125W)

Chipset

Intel® C624/C627 Chipset (SKU dependent)

Memory

16x DDR4-2666 DIMM sockets, ECC, registered, up to 512GB

• BIOS

Chip

AMI BIOS on SPI flash memory

• Operating System

Windows 7 64-bit,
 Windows 10 64-bit,
 Windows Server 2016,
 Linux Kernel 2.6 and above

• I/O Interfaces

Expansion

2x PCIe x16 Gen3 FHFL SW/DW interfaces
 2x RJ-45 10/100/1000BASE-T Ethernet ports
 4x 10G SFP+ Ethernet ports

Console

1x RJ-45 serial port

USB

2x USB 3.0

Graphics

1x VGA port (internal)

• Control

Power

Power button on the rear of the chassis

Management

IPMI v2.0 with iKVM and SOL support

Specifications

- **Storage**

- **Drive Bays**

- 2x 2.5" hot-swappable SATA 6 Gb/s drive bay
 - 1x onboard M.2 SATA 6Gb/s 2280 M key
 - 2x onboard M.2 NVME 2242 M key

- **LEDs**

- Power, Alert, Drive Activity (user programmable)

- **TPM**

- TPM1.2/2.0 (SKU dependent)

- **Intel® QuickAssist Technology**

- 100Gb/s Intel® QAT support (SKU dependent)

- **Mechanical and Environmental**

- Form Factor: 2U 19" rackmount 438mm x 88mm x 420mm (WxHxD)

- Fans: 3 fans, adaptive speed

- Power: 800W/1200W 1+1 redundant PSU (SKU dependent)

- 100V ~ 240V AC@50 ~ 60Hz

- -36V ~ - 72V DC

- 240V ~ 310V HVDC

- **Temperature and humidity**

- Operating: -5°C to +55°C, 10%-85% RH @40°C, non-condensing

- Storage: -40°C to +70°C, 5%-90% RH, non-condensing

- **Shock**

- Operating: Half-sine 2G, 11ms pulse, 100 pulses in each direction

- Non-operating: Trapezoidal, 25G, 170 inches/sec delta V, three drops in each direction

- **Vibration**

- Non-operating Vibration: 2.2Grms, 10 minutes per axis in each direction

- **Acoustic**

- Sound pressure < 75 dBA @1m with all fans maximum speed

- **Regulatory**

- FCC Class A, CE emissions, UL, CB, CCC and RoHS compliant

- **MTBF**

- 90,000 hours

- **Software Support**

- Validated with DPDK, provides a high throughput for data plane packet processing

Mechanical Overview



Front View



Rear View