

MECS-7210

2U 19" Edge Server with Intel® Xeon® Scalable Silver/Gold Processors for 5G MEC Infrastructure Deployment

Features

- Up to 2x 1st or 2nd Gen Intel® Xeon® Scalable Processors
- 16x DDR4 2666 ECC RDIMM up to 512GB
- 2x 2.5" SATA bays
- 3x M.2 interfaces on board
- 2x PCIe x16 Gen3 single/dual-slot FHFL interfaces
- TPM 1.2/2.0 module
- 2U 19" rackmount form factor, 420mm depth
- Built-in Intel® QuickAssist Technology support
- Validated as a NGC-Ready edge server and AWS IoT Greengrass edge device



Specifications

• CPU / Chipset / Memory

CPU

Up to 2x 1st or 2nd Gen Intel® Xeon® Scalable Processors (max. 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)

Note:

1. Models equipped with dual PCIe slots only support CPUs with 85W TDP.
2. For other processor SKUs, please contact your ADLINK representative.

Chipset

Intel® C624/C627 Chipset (SKU dependent)

Memory

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

• BIOS

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

- 2x RJ-45 10/100/1000BASE-T Ethernet ports (Intel® I210)
- 4x 10G SFP+ Ethernet ports (Intel® X722)
- 1x RJ-45 serial console port
- 2x USB 3.0
- 1x VGA port

• Expansion

- 2x PCIe x16 Gen3 single/dual-slot FHFL interfaces

*Note: Only single-slot passive-cooled PCIe card I/Os are externally accessible.

• Control

Buttons

Power and Reset buttons on front of chassis

Management

IPMI v2.0 with iKVM and SOL support

Specifications

Storage

- 2x 2.5" hot-swappable SATA 6 Gb/s drive bays
- 1x onboard M.2 2242 M key SATA 6 Gb/s (Supports software RAID 0,1, 5 by the above 3 SATA interfaces)
- 2x extensive M.2 2242/2280 NVMe slots (optional)

LEDs

- Power, Alert, Drive Activity (user programmable)

TPM

- TPM1.2/2.0 (SKU dependent)

Intel® QuickAssist Technology

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

Validations

- AWS Service: AWS IoT Greengrass 1.10.2 (AWS Greengrass v1.10.2)
- NVIDIA NGC-Ready: NVIDIA® Tesla® V100 Tensor Core GPU, Quadro RTX 5000/6000

Mechanical and Environmental

- Form Factor: 2U 19" rackmount 438mm x 88mm x 420mm (WxHxD)
- Carton Dimension: 572mm x 277mm x 761mm (WxHxD)
- Net Weight: 12.5 kg
- Gross Weight: 18 kg
- Fans: 3 fans, adaptive speed
- Power: 800W/1200W 1+1 redundant PSU (SKU dependent)
 - 100V to 240V AC @50 - 60Hz
 - 36V to - 72V DC
 - 240V to 310V HVDC

*Note: System weights are measured with 2 processors, 4 memory modules and 1 SSD installed, and without PCIe cards.

Temperature and Humidity

- Operating: -5°C to +55°C, 10%-85% RH @40°C, non-condensing (only with ADLINK approved add-on devices, excluding hard drives and PCIe cards)
- 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

*Note: Shock and vibration tests are passed with WinFast RTX-2060 Super Classic graphics card installed.

Regulatory

- FCC/CE/CCC class A, UL, CB, and RoHS compliant

*Note: Certifications have been passed with 1200W AC PSU installed. If you require DC power input, please contact your ADLINK representative.

Software Support

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

Mechanical Overview



Front View



Rear View

