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



aws qualified device internet of things

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



LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

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