

MECS-6110

1U 19" Edge Server with Intel® Xeon® D Processor for Communication and Edge Computing Infrastructure Deployment

Features

- 1x Intel® Xeon® D-2100 family processor
- 4x DDR4-2666 1DPC RDIMM ECC REG up to 256GB
- 2x 2.5" SATA bays and 2x M.2 M Key interfaces
- 2x PCIe x16 Gen3 single-slot FHFL interface or 1x PCIe x16 Gen3 dual-slot FHFL interface
- 1x PCIe x8 Gen3 OCP NIC
- 420mm depth 1U 19" rackmount form factor
- Built-in Intel® QAT support
- TPM 1.2/2.0 module
- IEEE 1588 v2 and 4x 1PPS SMA input/output

Preliminary



Specifications

• CPU / Chipset / Memory

CPU

Intel® Xeon® D-2177NT Processor 1.90GHz (14C/28T, 105W)

Intel® Xeon® D-2183IT Processor 2.20GHz (16C/32T, 100W)

Intel® Xeon® D-2187NT Processor 2.00GHz (16C/32T, 110W)

Chipset

Integrated on Intel® Xeon® D SoC

Memory

4x DDR4-2666 1DPC RDIMM sockets, ECC, REG, up to 256GB

• BIOS

AMI BIOS on SPI flash memory

• Operating Systems

Microsoft Windows Server 2012/2016

CentOS Linux 7.2/7.2

SuSE Linux Enterprise Server 11/12

*No OS installed by default

• I/O Interfaces

2x RJ-45 100/1000BASE-T Ethernet port (front)

4x 10G SFP+ Ethernet port (front)

2x RJ-45 1PPS+ TOD port (front)

1x RJ-45 console port (front)

2x USB 3.0 (front) and 1x USB 2.0 (internal)

1x VGA rear

1x COM (internal)

4x 1PPS SMA input/output (internal)

• Expansion

2x PCIe x16 Gen3 passive cooling SWFHFL cards up to 110W for each or

1x PCIe x16 Gen3 passive cooling DWFHFL card up to 250W

1x PCIe x8 Gen3 OCP NIC v2

• Control Buttons (front access)

Power, reset, UID

• Chassis Management

IPMI v2.0 compliant with iKVM and SoL support

Specifications

- **Storage**

2x 2.5" hot-swappable SATA 6Gb/s
1x onboard M.2 NVME socket, 2242 M Key
1x onboard M.2 NVME socket, 2280 M Key

- **LEDs (front)**

Power, alert, drive activity, BMC heartbeat, UID

- **TPM**

TPM1.2/2.0 module (SKU dependent)

- **Hardware Acceleration**

Intel® QuickAssist Technology (SKU dependent)

- **Regulatory**

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

- **MTBF**

150,000 hours

- **Software Support**

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

- **Mechanical**

- **Form Factor**

1U 19" rackmount 438mm x 44mm x 420mm (WxHxD)

- **Cooling**

6x adaptive speed fans

- **Power**

600W 1+1 redundant PSUs
100V to 240V AC@50~60Hz
-36V to -72V DC

- **Environmental (PCIe card dependent)**

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 at maximum speed

Mechanical Overview



Front View



Rear View