

# MECS-6110/6111

## 1U 19" Edge Server with Intel® Xeon® D Processor for Communications and 5G MEC Infrastructure Deployment

### Features

- 1x Intel® Xeon® D-2100 family processor
- 4x DDR4-2666 RDIMM ECC REG up to 256GB
- 2x 2.5" SATA bays (MECS-6110 only) and 2x M.2 M Key interfaces
- 2x PCIe x16 Gen3 single-slot FHFL interfaces or 1x PCIe x16 Gen3 dual-slot FHFL interface
- 1x PCIe x8 Gen3 OCP interface
- 420mm depth 1U 19" rackmount form factor
- Built-in Intel® QAT support
- TPM 1.2/2.0 module
- 2x IEEE 1588 v2 1PPS/TOD RJ-45 port and 4x 1PPS SMA input/output
- EMC grade: Class B
- PSUs front accessible for small footprint deployment (MECS-6110 only)
- Verified Intel® Select Solution for uCPE on CentOS



### 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)

Note: For other processor SKUs, please contact your ADLINK representative.

##### 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 7.2/7.6

SuSE Linux Enterprise Server 11/12

Note: 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)

\*Note: verified with the following SFP+ modules; Finisar FTLX8574D3BCL 850nm, Finisar FTLX8571D3BCL 850nm, Finisar FTLX1471D3BCL 1310nm, Finisar FTLX1471D3BCV 1310nm, Finisar FTLX8571D3BCV 850nm, Intel FTLX8571D3BCVIT1 850nm

#### • Expansion

##### Option 1

2x PCIe x16 Gen3 single-slot FHFL interfaces

Passive cooling, up to 110W each

##### Option 2

1x PCIe x16 Gen3 dual-slot FHFL interface

Passive cooling, up to 250W

##### Option 3

1x PCIe x16 Gen3 single-slot FHFL interfaces, passive cooling up to 110W +

1x PCIe x8 Gen3 single-slot FHFL interfaces, passive cooling up to 110W +

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 (cont'd)

### • Storage

2x 2.5" hot-swappable SATA 6Gb/s (MECS-6110 only)  
2x onboard M.2 SATA/NVMe sockets, 2242/2280 M Key  
(Supports software RAID 0, 1, 5, 10 by 4 SATA interfaces)

### • 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/CE/CCC class B, UL, CB, and RoHS compliant  
Note: Certifications were passed with 450W AC-DC/DC-DC PSU installed (MECS-6110 only).

### • 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)

#### Carton Dimension

572mm x 277mm x 761mm (WxHxD)

#### Weight

Net Weight: 7Kg

Gross Weight: 11Kg

Note: System weights are measured with 2 memory modules and 1 SATA drive installed, and without any OCP or PCIe cards.

#### Cooling

6x adaptive speed fans

#### Power

450W/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, 5% - 95%RH, non-condensing

Note: Not including HDD and PCIe cards.

Storage: -40 °C to +70 °C, 5% - 95% 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 were passed with dual-slot graphics card installed.

## Mechanical Overview

MECS-6110



MECS-6111



Front View

Rear View

