

1U 19" EDGE SERVER WITH INTEL® XEON® D PROCESSOR FOR COMMUNICATIONS AND 5G MEC INFRASTRUCTURE DEPLOYMENT

MECS-6110/6111

Datasheet



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 MMCX input/output
Note: Please contact your ADLINK representative for detailed information on clock synchronization.
- 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)

Specifications (cont'd)

I/O Interfaces		1x VGA rear 1x COM (internal) 4x 1PPS MMCX input/output (internal) <small>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</small>
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
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 <small>Note: Certifications were passed with 450W AC-DC/DC-DC PSU installed (MECS-6110 only).</small>
Software Support		Validated with DPDK, provides high throughput for data plane packet processing
Thermal Reference for PCIe Card Design		The suggested PCIe bracket air inlet ratio is at least 30%, under which case, the airflow is 11.3 CFM. <small>Note: Please contact your ADLINK representative for detailed information on thermal issue.</small>
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 <small>Note: System weights are measured with 2 memory modules and 1 SATA drive installed, and without any OCP or PCIe cards.</small>
Cooling		6x adaptive speed fans
Power		450W/600W 1+1 redundant PSUs 100V to 240V AC @50-60Hz -36V to -72V DC

Specifications (cont'd)

Environmental (PCIe card dependent)	Operating: -5 °C to +55 °C, 5% - 95%RH, non-condensing <small>Note: Not including HDD and PCIe cards.</small> 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 <small>Note: Shock and vibration tests were passed with dual-slot graphics card installed.</small>

Mechanical Overview

MECS-6110

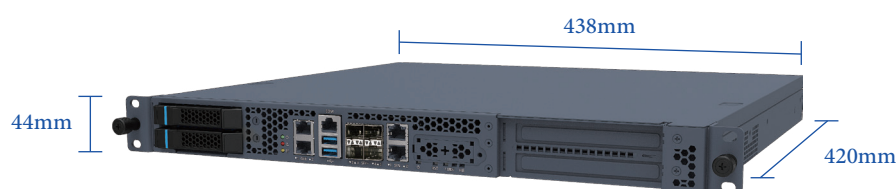


MECS-6111



Front View

Rear View



Mouser Electronics

Authorized Distributor

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