ADLINK
LEADING EDGE COMPUTING

MECS-7120

Datasheet

1U 19” Edge Server with 4th Gen Intel® Xeon® Processor Scalable Family Processor

Features

- Single 4th or 5th Gen Intel® Xeon® Scalable Processor, up to 225W TDP
- 6x DDR5 DIMMs, 4800MT/s (6 channels, 1DPC)
- On-board 2x 25G SFP28 Ethernet ports
- RunBMC with AST2600, IPMI v2.0/Redfish compliant
- Optional clock module to provide time sync from GNSS



SKU1



SKU2

Specifications

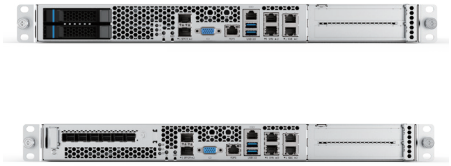
CPU / Chipset / Memory	CPU	Single 4th or 5th Gen Intel® Xeon® Scalable Processor, up to 225W TDP
	Chipset	Emmitsburg series of chipset
	Memory	6x DDR5 DIMMs, 4800MT/s (6 channels, 1DPC)
BIOS	Chip	AMI BIOS on SPI flash memory
I/O Interfaces	Expansion	1U: SKU1: 2x FHFL single-slot PCIe x16 Gen4 slot (via riser card) SKU2: 2x FHFL single-slot PCIe x16 Gen4 slot (via riser card)+1x FHHL single-slot PCIe x8 Gen4 slot (via riser card)
	Ethernet	2x 1G RJ45 Ethernet port 2x 25G SFP28 Ethernet ports
	USB	2x USB 3.0/2.0 (front) 1x USB 2.0 Header (internal)
	Graphics	1x VGA port
	Console	1x RJ-45 COM port
Clock Sync (via ADLINK CLK Card CLK-100)	OCPv2.0 add on clock card (available) Support IEEE 1588 v2 over 2x25G and clock sync signals to PCIe slot OCXO Holdover: ±1.5μs/24h @ △ T=±10°C; Temperature Stability: ±0.2ppb One SMA header for GPS antenna input 2x RS-422 clock synchronous port 1x RGPS port to sync PPS and TOD from external RPGS module	

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Specifications

Control Buttons	1x Power button (front) 1x UID button (front)
Storage/Connection	SKU1: 2x 2.5'' hot-swappable SATA drive bays 1x M-key M.2 (PCIe x2 NVME, SATA) 1x B-key M.2 (SATA, LTE/5G cellular modem adapter) SKU2: 1x M-key M.2 (PCIe x2 NVME, SATA) 1x B-key M.2 (SATA, LTE/5G cellular modem adapter)
LEDs	Health, Alert, SATA, Power, UID
QAT & FEC Acceleration	QAT supported by SPR-SP processor SKU 5G FEC acceleration supported by SPR-EE processor SKU
Operating System	Ubuntu server (32-bit/64-bit) Microsoft Windows Server 2019
Mechanical and Environmental	Form Factor: 1U 19'' rackmount, 420mm depth Fans: 5x fans, smart fan speed control Power: 550W/800W, AC/DC
TPM	Plug-in TPM 2.0 module
Temperature and Humidity	Operating: -5°C to +55°C, 5%-95% 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
Regulatory	FCC/CE/CCC class B, CB, UL and RoHS compliant

Front View



Rear View



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