

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

MECS-7120

Datasheet



SKU1



SKU2

Features

- Single 4th Gen Intel® Xeon® Processor Scalable (formerly: Sapphire Rapids-SP/EE) Family Processor
- 6x DDR5 DIMMs, 4800MT/s (6 channels, 1DPC)
- On-board 2x 25G SFP28 Ethernet ports
- 1U 19" rackmount form factor for telecom infrastructure deployment
- RunBMC with AST2600, IPMI v2.0/Redfish compliant
- Optional clock module to provide time sync from GNSS
- Designed for 5G: DU, DU+CU, DU+CU+MEC, MEC, uCPE, industrial edge computing

Specifications

CPU / Chipset / Memory	CPU	Single 4th Gen Intel® Xeon® Processor Scalable Intel® Xeon® Gold 5403N Processor (22.5M Cache, 2.00 GHz) Intel® Xeon® Gold 5423N Processor (37.5M Cache, 2.10 GHz) Intel® Xeon® Gold 5433N Processor (37.5M Cache, 2.30 GHz)
	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

Specifications

Clock Sync (via ADLINK CLK Card CLK-100)	<p>OCPv2.0 add on clock card (available)</p> <p>Support IEEE 1588 v2 over 2x25G and clock sync signals to PCIe slot</p> <p>OCXO Holdover: $\pm 1.5\mu\text{s}/24\text{h}$ @ $\Delta T = \pm 10^\circ\text{C}$; Temperature Stability: $\pm 0.2\text{ppb}$</p> <p>One SMA header for GPS antenna input</p> <p>2x RS-422 clock synchronous port</p> <p>1x RGPS port to sync PPS and TOD from external RPGS module</p>
Control Buttons	<p>1x Power button (front)</p> <p>1x UID button (front)</p>
Storage	<p>SKU1: 2x 2.5" hot-swappable SATA drive bays</p> <p>1x M-key M.2 (PCIe x2 NVME, SATA)</p> <p>1x B-key M.2 (SATA, USB 3.0/2.0)</p> <p>SKU2: 1x M-key M.2 (PCIe x2 NVME, SATA)</p> <p>1x B-key M.2 (SATA, USB 3.0/2.0)</p>
LEDs	Health, Alert, SATA, Power, UID
QAT & FEC Acceleration	<p>QAT supported by SPR-SP processor SKU</p> <p>5G FEC acceleration supported by SPR-EE processor SKU</p>
Operating System	<p>Ubuntu server (32-bit/64-bit)</p> <p>Microsoft Windows Server 2019</p>
Mechanical and Environmental	<p>Form Factor: 1U 19" rackmount, 420mm depth</p> <p>Fans: 5x fans, smart fan speed control</p> <p>Power: 550W/800W, AC/DC</p>
TPM	Plug-in TPM 2.0 module
Temperature and Humidity	<p>Operating: -5°C to $+55^\circ\text{C}$, 5%-95% RH @ 40°C, non-condensing</p> <p>Storage: -40°C to $+70^\circ\text{C}$, 5%-90% RH, non-condensing</p>
Shock	<p>Operating: Half-sine 2G, 11ms pulse, 100 pulses in each direction</p> <p>Non-operating: Trapezoidal, 25G, 170 inches/sec delta V, three drops in each direction</p>
Vibration	Non-operating Vibration: 2.2Grms, 10 minutes per axis in each direction

Mechanical Overview



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