ADLINK
LEADING EDGE COMPUTING

2U 19”EDGE SERVER WITH INTEL® XEON® SCALABLE SILVER/ GOLD PROCESSORS FOR 5G MEC INFRASTRUCTURE DEPLOYMENT

MECS-7211

Datasheet



Features

- 2U 19’’rackmount short form factor, 450mm depth
- Dual 1st or 2nd Gen Intel® Xeon® Scalable Processors
- 16x DDR4 2666 ECC RDIMM up to 512GB
- 4x 2.5” SATA 6Gb/s drive bays
- 1x onboard M.2 2242/2280 M-Key SATA 6Gb/s socket
- 4x PCIe x16 Gen3 FHFL interface, 1x PCIe x8 Gen3 HHHL interface
- TPM 1.2/2.0 module
- Built-in Intel® QuickAssist Technology (QAT) support (SKU dependent)
- EMC grade: ClassB
- Support IEEE 1588v2 on SFP+ port and one SMA header for 1PPS output
  Note: Pls contact your ADLINK representative for detailed information on clock synchronization.

Specifications

CPU / Chipset / Memory	CPU	Dual 1st or 2nd Gen Intel® Xeon® Scalable Processors (max. 150W TDP): Intel® Xeon® Gold 5220R Processor 2.20 GHz (24C, 150W) Intel® Xeon® Gold 5218R Processor 2.10 GHz (20C, 125W) Note: For other processor SKUs, please contact your ADLINK representative
	Chipset	Intel® C624/C625/C627 Chipset
	Memory	16x DDR4-2400/2666/2933MHz RDIMM ECC, up to 512GB
BIOS	Chip	AMI BIOS on SPI flash memory
Expansion		FHFL PCIe x16 Gen3 slot: 4x single-slot (up to 110W each) or 2x dual-slot (up to 250W each) HHHL PCIe x8 Gen3 slot: 1x low-profile (up to 75W)
I/O Interfaces		2x 1G RJ45 Ethernet ports 4x 10G SFP+ Ethernet ports (Intel® X722) 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 1x RJ-45 COM port 2x USB 3.0 1x VGA port 1x SMA header for 1PPS output

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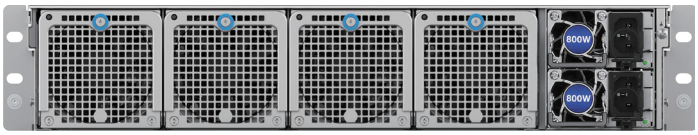
Specifications

Intel® QuickAssist Technology		100Gb/s Intel® QAT support (SKU dependent) Note: Intel® C627 Chipset supports QAT function
Operating Systems		Windows® 10 64-bit, Windows Server 2016 CentOS Linux Server (64-bit), Ubuntu Linux Server (64-bit) Other Linux distributions with kernel version 2.6 or above
ControlButtons		Power, resetand UID buttons on front panel
Management		IPMI v2.0 with iKVM and SOL support
Storage	Drive Bays	4x 2.5'' SATA 6Gb/s drive bays 1x onboard M.2 2242/2280 M Key SATA 6 Gb/s socket
LEDs		Power, Alert, SATA, Health, UID
Mechanical	Form Factor	2U 19'' rackmount 438mm x 88 mm x 450mm (WxHxD)
	Carton Dimensions	590mm x 310mm x 780mm (WxHxD)
	Net Weight	13 kg
	Gross Weight	19 kg
	Fans	4x fans, adaptive fan speed
Power		800W (EMC class B) or 1200W (EMC class A), 1+1 redundant PSU (SKU dependent) 100V to 240V AC @50–60 Hz -36V to -72V DC Note: System weights are measured with 2 processors, 4 memory modules and 1 SSD installed, without rail slides or PCIe cards
Environmental (PCIe card dependent)	Operating	-5°C to +55°C, 10%-85% RH @40°C, non-condensing (only with ADLINK approved add-on devices, excluding hard drives and PCIe cards)
	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 Note: Shock and vibration tests are passed with WinFast RTX-2060 Super Classic graphics card installed.
	IP Grade	IP20
Regulatory		FCC/CE/CCC class B, CB, and RoHS compliant Note: Certifications have been passed with 800W AC/DC PSU installed.
Software Support		Validated with DPDK, provides high throughput for data plane packet processing

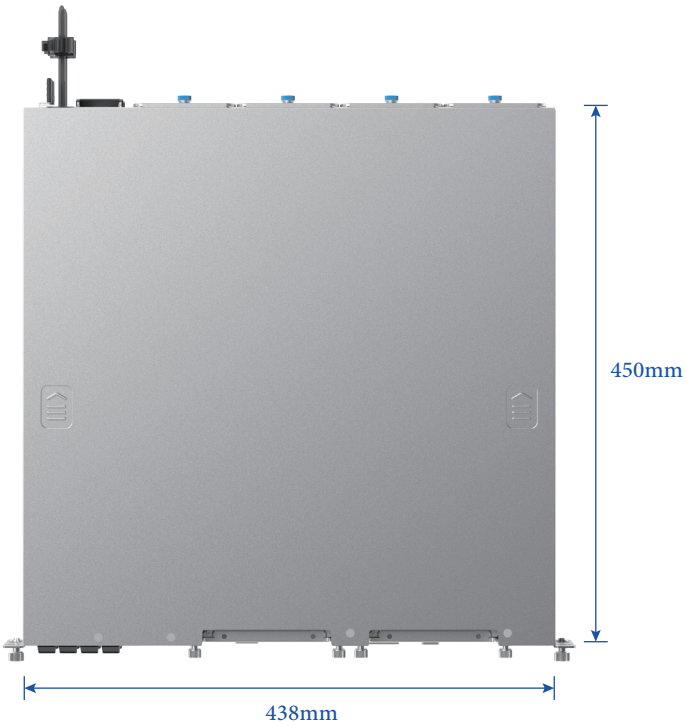
Mechanical Overview



Front View



Rear View



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