

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

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|------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |

Specifications

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|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, reset and 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 | |

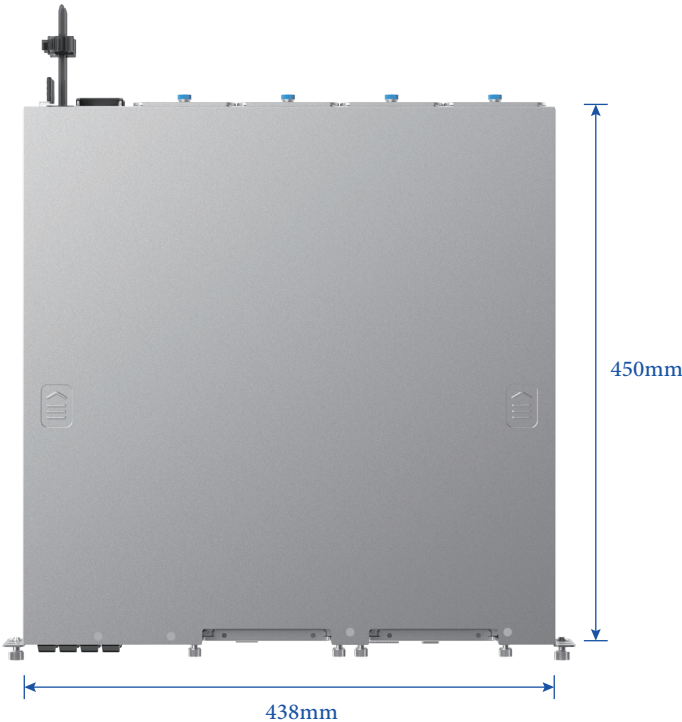
Mechanical Overview



Front View



Rear View



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