

XEF – M2

☰ 2U 19" Edge Server with Intel® Xeon® Scalable Processor

☰ Suitable for 5G MEC deployment



☰ Integrated Software Features

- Openshift 4.5
- IPFS 0.13.2
- XENIRO Snapscale 2.0.4
 - Consortium Blockchain
 - Privacy trade via ring signature
 - Dual type consensus (1) DpoS + pBFT (2) pBFT
 - China security compliance SM2/3/4

Blockchain Features

- 0.005s response time
- 99.99% success rate

☰ Hardware Features

- Upto 2x 1st or 2nd Gen Intel® Xeon® Scalable processors
- 16x DDR4-2666 ECC REG up to 512GB
- 2x 2.5" SATA bays
- 3x M.2 interfaces onboard
- 2x PCIe x16 Gen3 single / dual-slot FHFL interface
- TPM 1.2/2.0 module
- 2U 19" rackmount form factor – 420mm depth
- Built-in Intel® QAT support

☰ Specifications

CPU / Chipset / Memory CPU

Upto 2x 1st or 2nd Gen Intel® Xeon® Scalable processors (Max. 125W TDP) including :

- Intel® Xeon® Silver 4116 Processor 2.10GHz (12C, 85W)
- Intel® Xeon® Silver 4210 Processor 2.20GHz (10C, 85W)
- Intel® Xeon® Silver 4214 Processor 2.20GHz (12C, 85W)
- Intel® Xeon® Silver 4216 Processor 2.10GHz (16C, 100W)
- Intel® Xeon® Gold 6130 Processor 2.10GHz (16C, 125W)
- Intel® Xeon® Gold 6230 Processor 2.10GHz (20C, 125W)
- Intel® Xeon® Gold 6238T Processor 1.90GHz (22C, 125W)

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Chipset

Intel® C624/C627 Chipset

Memory

16x DDR4-2666 DIMM sockets, ECC,
registered up to 256GB

Operating Systems

- Microsoft Windows 7 64-bit
- Microsoft Windows 10 64-bit
- Microsoft windows Server 2016
- Linux Kernel 2.6 and above

I/O Interfaces

- 2x OCle 16 Gen3 single/ dual-slot FHFL interfaces
- 2x RJ-45 10/100/1000BASE-T Ethernet ports
- 1x RJ-45 serial port
- 2x USB 3.0
- Graphics – 1x VGA port (Internal)

Storage (Drive Bays)

- 2x 2.5" hot-swappable SATA 6Gb/s
- 1x onboard M.2 2242 M Key SATA 6Gb/s
- 2x onboard M.2 2242/2280 NVMe

LEDs (front)

- Power, alert, drive activity (user programmable)

TPM

- TPM1.2/2.0 module (SKU dependent)

Hardware Acceleration

- Intel® QuickAssist Technology QAT support (SKU dependent)

Regulatory

- FCC Class A, CE emissions, UL, CB, CCC and RoHS compliant

Software Support

- Validated with DPDK, provides high throughput for data plane packet processing

BIOS

AMI BIOS on SPI flash memory

Control

Control Buttons (front access) Power

Chassis Management

IPMI v2.0 compliant with iKVM and SoL support

Form Factor

- 2U 19" rackmount 438mm x 88mm x 420mm (WxHxD)

Cooling

- 3x adaptive speed fans

Power

- 800W / 1200W 1+1 redundant PSUs
- 100V to 240V AC @50-60Hz
- -36V to -72V DC
- 240V to 310V HVDC

Environmental (PCIe card dependent)

- Operating: -5 °C to +55 °C, 10-85% RH @40 °C, non-condensing (Note: HDDs and PCIe cards not included)
- Storage: -40 °C to +70 °C, 5-90% RH, non-condensing

Shock

- Operating: Half-Sine 2G, 11ms pulse, 100 pulse 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