IoT SuperServer SYS-112D-42C-FN8P

1U Compact Edge Server

More details here

Key Applications

Multi-Access Edge Computing, Flex-RAN, Open-RAN vBBU, Telco Edge, Artificial Intelligence (AI) on Edge, DU of 5G Application, Satellite Communication, vRAN/o-RAN,

Key Features

- Intel® Xeon® 6 SoC 6726P-B, CPU TDP 235W, Intel Quick Assist Technology, Intel vRAN Accelerator;
- Up to 4 DIMMs supporting up to 512GB DDR5-6400;
- Up to 2 PCIe 5.0 x16 FHHL slots;
- 8 SFP28 25GbE
  2 SMA for 1PPS (1 Input 1 Output)
  1x SMA for GNSS input with onboard GNSS module;
- IEEE1588 v2 & Synchronous Ethernet support
  DPLL/OCXO design
  Up to 8 hours hold-over;
- Up to 2 internal fixed 2.5" U.2 NVMe drives;
- Support for up to 1 single-width PCIe GPU accelerator cards;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 399mm (17.2" x 1.7" x 15.7") Package: 680 x 200 x 605mm (26.7" x 7.9" x 23.8")
Processor	Intel® Xeon® 6 SoC 42C/84T; 168MB Cache
GPU	Up to 1 single-width GPU
System Memory	Slot Count: 4 DIMM slots/4 Channels Max Memory (1DPC): 512GB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 2.5" NVMe drive bays M.2: 1 M.2 PCIe 4.0 x2 NVMe slot (M-key 2280(default))
Expansion Slots	Default • 2 PCIe 5.0 x16 (in x16) FHHL slots
On-Board Devices	Chipset: System on Chip Network Connectivity: 8 SFP28 25GbE with Intel® SoC
Input / Output	LAN: 1 RJ45 1 GbE LAN port (Intel® I210-IT) (IPMI shared on LAN port 1) 8 SFP28 25 GbE LAN ports (Intel® SOC) (IPMI shared on LAN port 1) USB: 2 USB 3.2 Gen1 Type-A ports(front) Video: 1 mini-DP port TPM: 1 TPM header 1 TPM Onboard/port 80 Others: 1 Dry contact (4 sets) port 3 SMA (GNSS / 1PPS in / 1PPS out) ports

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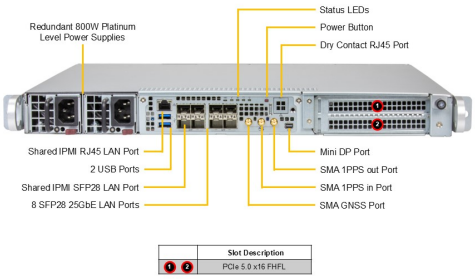
(Front View – System)



	Slot Description
1 2	PCIe 5.0 x16 FHFL

(Top View – System)

System Cooling	Fans: 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shrouds
Power Supply	2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors CPU: Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. Voltage: Voltage, VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
Dimensions and Weight	Weight: Gross Weight: 29 lbs (13.15 kg) Net Weight: 18 lbs (8.16 kg) Available Color: No Paint
Operating Environment	Operating Temperature: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	**Super X14SDW-42C-SP9F**
Chassis	**CSE-515M2-R000NP**

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