

IoT SuperServer SYS-212D-64C-FN8P



Key Applications

Multi-Access Edge Computing (MEC), Telco Edge, DU of 5G Application, Satellite Communication, VRAN/ORAN for Telecom, Edge AI,

Key Features

- Intel® Xeon® 6 SoC 6756P-B, 325W TDP / 64 Cores, Intel® Speed Select Technology, Intel® vRAN Boost;
- Up to 8 DIMMs supporting up to 1TB DDR5-6400 in 1DPC;
- On-board 8 SFP28 25GbE
3 SMA (GNSS / 1PPS in / 1PPS out) port(s);
- Up to 2 PCIe 5.0 x16 FHHL slots;
- Up to 2 internal fixed 2.5" NVMe drive bays;
- 2U Rackmount chassis with 11.8" (298.8mm) depth;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 401.1mm (17.2" x 3.5" x 15.79") Package: 720 x 266 x 555mm (28.35" x 10.47" x 21.85")
Processor	Intel® Xeon® 6 SoC 64C/128T
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): 1TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bays <ul style="list-style-type: none"> • 2 internal fixed 2.5" NVMe drive bays M.2: 1 M.2 PCIe 4.0 x2 NVMe slot (M-key 2280(default); VROC required for RAID)
Expansion Slots	Default <ul style="list-style-type: none"> • 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



System Cooling	Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 2000W Redundant (1 + 1) Titanium (certification pending) Level (96%) 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	CPU: Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors 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: 19.84 lbs (9 kg) Net Weight: 13.23 lbs (6 kg) Available Color: Black
Operating Environment	RoHS Compliant 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-64C-SP9F
Chassis	CSE-221M2-R000NDP