

IoT SuperServer SYS-112B-FDWR

1U Compact Edge Server with 2 NVMe/SATA bays



Key Applications

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

Key Features

- Single Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores;
- 8 DIMMs; Up to 1TB ECC DD5-6400 RDIMM;
- 2x FHFL PCIe 5.0 x16; 1x LP PCIe 5.0 x16;



Form Factor	1U Rackmount Enclosure: 436.88 x 44.5 x 429.3mm (17.2" x 1.7" x 16.9") Package: 685 x 203 x 609mm (27" x 8" x 24")
Processor	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
GPU	Max GPU Count: Up to 2 single-width GPUs Supported GPU: NVIDIA PCIe: L4
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 2.5" NVMe/SATA drive bays M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 2 PCIe 5.0 x16 FHFL slots • 1 PCIe 5.0 x16 LP slot M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)
On-Board Devices	SATA: SATA (6Gbps) Chipset: System on Chip Network Connectivity: 2 RJ45 1GbE with Intel® I210
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 1 GbE LAN ports USB: 2 USB 3.2 Gen1 Type-A ports(rear) 2 USB 3.2 Gen1 ports(Header) Video: 1 VGA port Serial: 1 COM port(rear) TPM: 1 TPM header



System Cooling	Fans: Up to 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 600W Redundant (1 + 1) Typical 90%+ Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB 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: 15 lbs (6.8 kg) Net Weight: 10 lbs (4.54 kg) Available Color: Silver
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 X14SBW-F
Chassis	CSE-515B-R000WNP