

IoT SuperServer SYS-112B-FWT

1U Compact Edge Server with 2 NVMe/SATA bays



Key Applications

Multi-Access Edge Computing (MEC), Satellite Communication, Edge AI, Enterprise Edge,

Key Features

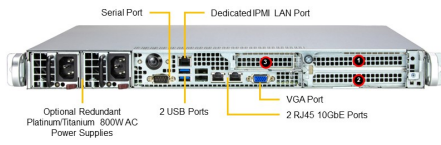
- Single Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores;
- 8 DIMMs; Up to 1TB ECC DD5-6400 RDIMM;
- 2x FHFL PCIe 5.0 x16; 1x LP PCIe 5.0 x16;



Form Factor	<p>1U Rackmount</p> <p>Enclosure: 436.88 x 44.5 x 429.3mm (17.2" x 1.7" x 16.9")</p> <p>Package: 685 x 203 x 609mm (27" x 8" x 24")</p>
Processor	<p>Single Socket E2 (LGA-4710)</p> <p>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores</p> <p>P-cores: Up to 86C/172T; Up to 336MB Cache</p> <p>E-cores: Up to 144C/144T; Up to 108MB Cache</p>
GPU	<p>Max GPU Count: Up to 2 single-width GPUs</p> <p>Supported GPU: NVIDIA PCIe: L4</p> <p>Intel: Arc™ Pro B50 Graphics, Arc™ Pro B60 Graphics (DW), Arc™ Pro B60 Graphics (SW)</p>
System Memory	<p>Slot Count: 8 DIMM slots/8 Channels</p> <p>Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM</p>
Drive Bays Configuration	<p>Default: Total 2 bays</p> <ul style="list-style-type: none"> • 2 internal fixed 2.5" NVMe/SATA drive bays <p>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHFL slots • 1 PCIe 5.0 x16 LP slot
On-Board Devices	<p>SATA: SATA (6Gbps)</p> <p>Network Connectivity: 2 RJ45 10GbE with Intel® X550</p>
Input / Output	<p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</p> <p>2 RJ45 10 GbE LAN ports</p> <p>USB: 2 USB 3.2 Gen1 Type-A ports(rear)</p> <p>2 USB 3.2 Gen1 ports(Header)</p> <p>Video: 1 VGA port</p> <p>Serial: 1 COM port(Front)</p> <p>TPM: 1 TPM header</p>

(Front View – System)

(Rear View – System)



Slot Description	
1 2 3	PCIe 5.0 x16

System Cooling	Fans: Up to 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 800W Redundant (1 + 1) Platinum Level (94%) Hot-plug 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: 15 lbs (6.8 kg) Net Weight: 10 lbs (4.54 kg) Available Color: Silver
Operating Environment	Operating Temperature: 0°C to 35°C (32°F to 95°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	<u>Super X14SBW-TF</u>
Chassis	CSE-515B-R000WNP2