

IoT SuperServer SYS-112D-20C-FN3P

1U Intel Xeon Processor, 20-Core, front I/O System with 2x 100G ports, 800W redundant Platinum Level PWS



Key Applications

Edge Computing, Intel® QuickAssist Technology,

Key Features

- Intel Xeon 6 SoC with P-Cores, 20C, 145W;
- Support for up to 1 double-width PCIe GPU accelerator cards;
- Up to 4 DIMMs supporting up to 512GB DDR5-4800 MT/s;
- 2x 100GbE QSFP28 +1x IPMI shared LAN 1x GbE RJ45;
- Up to 1 PCIe 5.0 x16 FHFL slots;
- Up to 2 internal fixed 2.5" U.2 drive bays;
- 2 Redundant 800W Platinum Level power supplies;
- 1U Rackmount chassis with 15.7" (399mm) depth;



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 with P-Cores (GNR-D)
GPU	Max GPU Count: Up to 1 double-width or 1 single-width GPU Supported GPU: NVIDIA PCIe: L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 4 DIMM slots/1 Channels Max Memory (1DPC): Up to 128GB/512GB 4800MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 2 bays • 2 internal fixed 2.5" PCIe 4.0 x4 NVMe drive bays M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280)
Expansion Slots	Default • 1 PCIe 5.0 x16 (in x16) FHFL slot
On-Board Devices	Chipset: System on Chip Network Connectivity: 1 RJ45 1GbE with Intel® I210-IT 2 QSFP28 100GbE with Intel® SoC
Input / Output	LAN: 1 RJ45 1 GbE LAN port (Intel® I210-IT) (IPMI shared on LAN port 1) 2 QSFP28 100 GbE LAN ports (Intel® SOC) USB: 2 USB 2.0 ports(header) 2 USB 3.0 Type-A ports(Front) Video: 1 VGA port Serial: 1 COM port(Header) TPM: 1 TPM header



System Cooling	Fans: 5 Counter-rotating, Hot-swappable 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI BIOS Features: ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9 PCI F/W 3.3 Plug and Play (PnP)
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!; Plug-ins for 3rd Party Software
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory Voltage: Monitors CPU Core Voltages, +3.3V, +12V, +3.3Vstb, +5Vstb, Vcore, Vmem FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: CPU thermal trip support, PEPI Monitoring for CPU and chassis environment Other Features: WOL,RoHS, Control of power-on for recovery from AC power loss, ACPI power management
Dimensions and Weight	Weight: Gross Weight: 29 lbs (13.15 kg) Net Weight: 18 lbs (8.16 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	Super X14SDV-20C-SP3F
Chassis	CSE-515M-R000NP2