# IoT SuperServer SYS-112D-36C-FN3P

1U Intel Xeon Processor, 36-Core, front I/O System with 2x 100G ports, 800W redundant Platinum Level PWS

More details here

## Key Applications

Edge Computing, Content Repositories, CDN Optimized, Cloud Video Streaming, Multi-Purpose CDN, Cloud Gaming / AICAN, Dense-VDI, Intel® QuickAssist Technology, Content Delivery Network (CDN), Video and Music Production,

## Key Features

- Intel® Xeon® 6 SoC 6553P-B, CPU TDP 235W, Intel Quick Assist Technology, Intel Media Accelerator;
- Support for up to 1 double-width PCIe GPU card;
- Up to 4 DIMMs supporting up to 128GB/512GB DDR5-6400 in 1DPC;
- 1 RJ45 1GbE + 2 QSFP28 100GbE;
- Up to 1 PCIe 5.0 x16 FHFL slots;
- Up to 2 internal fixed 2.5" NVMe drive bays;
- 2 Redundant 800W Platinum Level power supplies;
- 1U Rackmount chassis with 15.7" (399mm) depth;

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| Form Factor | 1U Rackmount<br>Enclosure: 437 x 43.18 x 399mm (17.2" x 1.7" x 15.7")<br>Package: 685.8 x 203.2 x 609.6mm (27" x 8" x 24") |
| Processor | Intel® Xeon® 6 SoC<br>36C/72T; 144MB Cache |
| GPU | Max GPU Count: Up to 1 double-width or 1 single-width GPU<br>Supported GPU: Intel: Arc™ Pro B50 Graphics, Arc™ Pro B60 Graphics (DW), Arc™ Pro B60 Graphics (SW)<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect |
| System Memory | Slot Count: 4 DIMM slots/1 Channels<br>Max Memory (1DPC): 512GB 6400MT/s ECC DDR5 RDIMM |
| Drive Bays Configuration | Default: Total 2 bays<br>• 2 internal fixed 2.5" PCIe 4.0 x4 NVMe drive bays<br>M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280) |
| Expansion Slots | Default<br>• 1 PCIe 5.0 x16 (in x16) FHFL slot |
| On-Board Devices | 1 RJ45 1GbE with Intel® I210-IT<br>2 QSFP28 100GbE with Intel® SoC |
| Input / Output | LAN: 1 RJ45 1 GbE LAN port (Intel® I210-IT) (IPMI shared on LAN port 1)<br>2 QSFP28 100 GbE LAN ports (Intel® SOC)<br>USB: 2 USB 2.0 ports (header)<br>2 USB 3.0 Type-A ports (Front)<br>Video: 1 VGA port<br>Serial: 1 COM port (header)<br>TPM: 1 TPM header |

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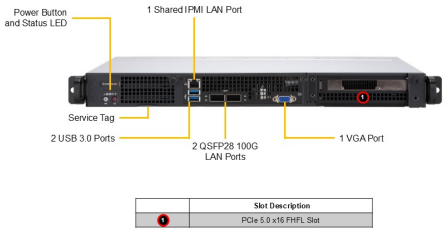
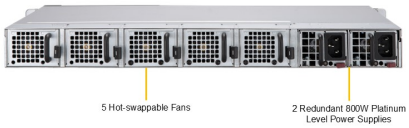
*(Front View – System)*




| | Slot Description |
|---|---|
| 1 | PCIe 5.0 x16 FHFL Slot |

*(Rear View – System)*

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|---|---|
| System Cooling | Fans: Up to 5 Counter-rotating, Hot-swappable 40x40x56mm Fan(s)<br>Air Shroud: 1 Air Shroud |
| Power Supply | 2x 800W Redundant (1 + 1) Platinum Level (94%) power supplies |
| System BIOS | BIOS Type: AMI 64MB UEFI<br>BIOS Features: ACPI 6.5<br>SMBIOS 3.7 or later<br>UEFI 2.9<br>PCI F/W 3.3<br>Plug and Play (PnP) |
| Management | SuperCloud Composer® (SCC); 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<br>Fan:<br>Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control<br>Other Features: WOL,RoHS, Control of power-on for recovery from AC power loss, ACPI power management<br>Temperature: CPU thermal trip support, PEPI Monitoring for CPU and chassis environment<br>Voltage: Monitors CPU Core Voltages, +3.3V, +12V, +3.3Vstb, +5Vstb, Vcore, Vmem |
| Dimensions and Weight | Weight: Gross Weight: 19.27 lbs (8.74 kg)<br>Net Weight: 16.53 lbs (7.5 kg)<br>Available Color: Black Front & Silver Body |
| Operating Environment | Operating Temperature: 0°C to 40°C (32°F to 104°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard | **Super X14SDV-36C-SP3F** |
| Chassis | **CSE-515M-R000NDFP2** |

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