# IoT SuperServer SYS-E300-12D-8CN6P

Mini-1U Embedded System with Intel Ice Lake-D CPU with 8 cores Super Server

More details here

## Key Applications

Universal Customer Premise Equipment (uCPE), Network Security Appliance, Software Defined WAN (SD-WAN), NFV Edge Computing Server, IoT Edge Computing / Gateway,

## Key Features

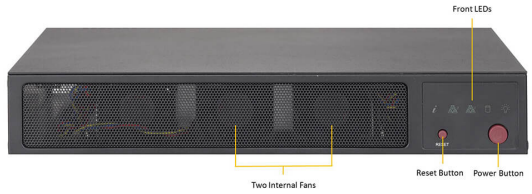


- Intel® Xeon® D Processor D-1736NT;
- 4x DDR4-2933MHz R-DIMM max 256GB or U-DIMM 128GB;
- Support M.2 M/B/E-Key with Nano SIM Card Slot
  Support PCIe 4.0 x16 Slot (Optional);
- 4x LAN 1GbE + 2x LAN SFP28 25GbE + IPMI;
- Support 1x 2.5" drive bays (Optional);

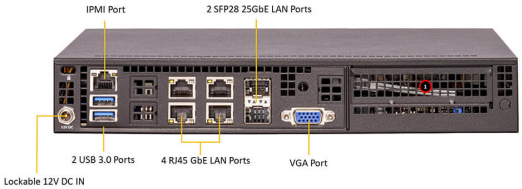
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|---|---|
| Form Factor | Fan-based Embedded Rackmount<br>Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89")<br>Package: 381 x 276 x 142mm (15" x 10.87" x 5.59") |
| Processor | Single FCBGA-2227<br>Intel® Xeon® Processor D-1736NT<br>Up to 8C/16T; Up to 15MB Cache |
| System Memory | Slot Count: 4 DIMM slots<br>Max Memory (2DPC): Up to 256GB 2933MT/s ECC DDR4 RDIMM/UDIMM |
| Drive Bays Configuration | Default: Total 1 bay(s)<br>• 1 internal fixed 2.5" SATA* drive bay(s)<br>(*SATA support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 1 M.2 PCIe 3.0 x2 SATA slot(s) (B-key 2280/3042/3052; USB 3.0)<br>1 M.2 PCIe 3.0 x4 NVMe/SATA slot(s) (M-key 2280) |
| Expansion Slots | PCI-Express (PCIe) Configuration:<br>Default*<br>• 1 PCIe 4.0 x16 LP slot(s)<br>(*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.)<br>M.2: 1 M.2 PCIe 3.0 x1 slot(s) (E-key 2230(default); USB 2.0) |
| On-Board Devices | Chipset: Intel® SoC<br>Network Connectivity: 2 SFP28 25GbE<br>2 RJ45 1GbE with Intel® I210-IT<br>2 RJ45 1GbE with Intel® I350-AM2 |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)<br>2 SFP28 25 GbE LAN port(s)<br>2 RJ45 1 GbE LAN port(s) (Intel® I350-AM2)<br>2 RJ45 1 GbE LAN port(s) (Intel® I210-IT)<br>USB: 2 USB 3.0 Type-A port(s) (Rear)<br>Video: 1 VGA port(s) (Rear) |

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(Front View – System)




(Rear View – System)




| | Slot Name | Slot Description |
|---|---|---|
| | Slot 1 | PCI-E 4.0 x16 LP |

| | |
|---|---|
| System Cooling | Fans: 3x 4-PIN PWM 40x40x28mm Fan(s) |
| Power Supply | 1x 180W power supply |
| System BIOS | BIOS Type: AMI 32MB UEFI<br>BIOS Features: ACPI 6.3<br>UEFI 2.7<br>SMBIOS 3.3<br>PCI FW 3.0 |
| Management | SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New! |
| Dimensions and Weight | Weight: Gross Weight: 7.5 lbs (3.4 kg)<br>Net Weight: 3.7 lbs (1.6 kg)<br>Available Color: Black |
| Operating Environment | Operating Temperature: 0°C ~ 40°C (32°F ~ 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 X12SDV-8C-SP6F** |
| Chassis | **CSE-E300** |

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