

# IoT SuperServer SYS-E300-12D-10CN6P

Mini-1U Embedded System with Intel Ice Lake-D CPU up to 10 cores Super Server



[More details here](#)

## Key Applications

IoT Gateway, Universal Customer Premise Equipment (uCPE), Network Function Virtualization (NFV), Networking Security Appliance, SD-WAN,

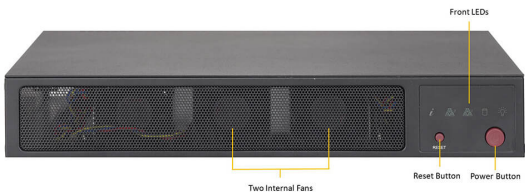
## Key Features

- Intel® Xeon® D Processor D-1747NTE;
- 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);

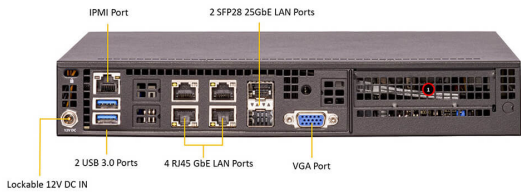


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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | <p>Fan-based Embedded</p> <p>Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89")</p> <p>Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")</p>                                                                                                                                                                                                                             |
| Processor                | <p>Single FCBGA-2227</p> <p>Intel® Xeon® Processor D-1747NTE</p> <p>Up to 10C/20T; Up to 15MB Cache</p>                                                                                                                                                                                                                                                                        |
| System Memory            | <p>Slot Count: 4 DIMM slots</p> <p>Max Memory (2DPC): Up to 256GB 2933MT/s ECC/non-ECC DDR4 RDIMM/UDIMM</p>                                                                                                                                                                                                                                                                    |
| Drive Bays Configuration | <p>Default: Total 1 bay</p> <ul style="list-style-type: none"> <li>• 1 internal fixed 2.5" SATA* drive bay</li> </ul> <p>(*SATA support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 1 M.2 PCIe 3.0 x2 SATA slot (B-key 2280/3042/3052)</p> <p>1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280)</p>       |
| Expansion Slots          | <p>PCI-Express (PCIe) Configuration:</p> <p>Default*</p> <ul style="list-style-type: none"> <li>• 1 PCIe 4.0 x16 LP slot</li> </ul> <p>(*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.)</p> <p>M.2: 1 M.2 PCIe 3.0 x1 slot (E-key 2230)</p> |
| On-Board Devices         | <p>2 SFP28 25GbE</p> <p>2 RJ45 1GbE with Intel® I210-IT</p> <p>2 RJ45 1GbE with Intel® I350-AM2</p>                                                                                                                                                                                                                                                                            |
| Input / Output           | <p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</p> <p>2 SFP28 25 GbE LAN ports</p> <p>2 RJ45 1 GbE LAN ports (Intel® I350-AM2)</p> <p>2 RJ45 1 GbE LAN ports (Intel® I210-IT)</p> <p>USB: 2 USB 3.0 Type-A ports(Rear)</p> <p>Video: 1 VGA port(Rear)</p>                                                                                                                         |

(Front View – System)



(Rear View – System)



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

|                       |                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 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® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM);<br>Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS);<br>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 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           | <a href="#">Super X12SDV-10C-SP6F</a>                                                                                                                                                                                                                  |
| Chassis               | CSE-E300                                                                                                                                                                                                                                               |