



F r q w d f w # k v :: V h d u f k :: U h v h o h u # J h v r x u f h # h q w h u ::

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- About Us
- Products
- Solutions
- Support
- Newsroom
- Where To Buy
- English ▼

SuperServer E300-8D

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Integrated Board



[Super X10SDV-TP8F](#)

Coming Soon

Key Features

- Embedded Networking Applications
- Network Security Appliance
- FireWall Applications
- Virtualization Server

1. Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-Core, 8 Threads, 35W
2. System on Chip 22nm System-on-Chip
3. 1x 2.5" fixed drive bay with bracket (when AOC area is not occupied)
4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
5. 1 PCI-E 3.0 x8 AOC slot (LP), Mini PCI-E (mSATA support), M.2 PCI-E 3.0 x4 (SATA support), M Key 2242/2280/22110
6. 2x 10G SFP+, 6 GbE LAN, and dedicated LAN for IPMI 2.0
7. VGA via BMC, 2 USB 3.0 ports
8. Passive CPU heat sink and 2x 40mm chassis fans
9. DC power adapter

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested M.2 List](#) ▶ [OS Certification Matrix](#)

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-E300-8D** ■ SuperServer E300-8D (Black)

Motherboard

Super X10SDV-TP8F

Processor/Cache

- CPU**
 - Intel® Xeon® processor D-1518, 2.2GHz; CPU TDP support 35W
 - FCBGA 1667

- Cores / Cache**
 - 4 Cores, 8 Threads / 6MB

System Memory

- Memory Capacity**
 - 4x DDR4 DIMM sockets
 - Supports up to 128GB DDR4 ECC RDIMM
 - Supports up to 64GB DDR4 ECC/non-ECC UDIMM

- Memory Type**
 - 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM

- DIMM Sizes**
 - 32GB, 16GB, 8GB, 4GB

- Memory Voltage**
 - 1.2 V

- Error Detection**
 - Corrects single-bit errors
 - Detects double-bit errors (using ECC memory)

On-Board Devices

- Chipset**
 - System on Chip

SATA

Chassis

- Form Factor**
 - Mini-1U

- Model**
 - CSE-E300

Dimensions

- Width**
 - 10" (254mm) / 15" (381mm) - pkg.

- Height**
 - 1.7" (43mm) / 10.87" (276mm) - pkg.

- Depth**
 - 8.9" (226mm) / 5.59" (142mm) - pkg.

- Weight**
 - Gross Weight: 7.5 lbs (3.4 kg)
 - Net Weight: 3.45 lbs (1.56 kg)

- Available Colors**
 - Black

Front Panel

- Buttons**
 - Power On/Off button

- LEDs**
 - Power LED (Hard drive activity LED)

Expansion Slots

- PCI-Express**
 - 1 PCI-E 3.0 x8 slots

- M.2**
 - Interface: PCI-E 3.0 x4
 - Form Factor: M Key 2242/2280/22110
 - Support SATA devices

- Mini PCI-E**
 - Interface: PCI-E 2.0 x1
 - Support mSATA

Drive Bays

- Internal**
 - 1x 2.5" fixed drive bay with bracket (when AOC area is not occupied)

System Cooling

| | |
|----------------------------|--|
| | <ul style="list-style-type: none"> SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe |
| Network Controllers | <ul style="list-style-type: none"> Dual 10G SFP+ from D-1500 SoC Quad 1GbE with Intel I350-AM4 Dual 1GbE with Intel I210 |
| IPMI | <ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Graphics | <ul style="list-style-type: none"> Aspeed AST2400 |
| USB 3.0 | <ul style="list-style-type: none"> Intel® SoC |
| TPM | <ul style="list-style-type: none"> TPM 2.0 header |
| Input / Output | |
| SATA | <ul style="list-style-type: none"> 4 SATA3 (6Gbps) ports |
| LAN | <ul style="list-style-type: none"> 2 10G SFP+ LAN ports 6 1GbE LAN ports 1 Dedicated IPMI LAN port |
| USB | <ul style="list-style-type: none"> 2 USB 3.0 ports (rear) |
| Display | <ul style="list-style-type: none"> 1 VGA port |
| DOM | <ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) power connectors |
| TPM | <ul style="list-style-type: none"> TPM 2.0 header |

| | |
|---|--|
| Fans | <ul style="list-style-type: none"> Passive CPU heat sink and max. 3x 40mm chassis fans |
| Power Supply | |
| DC Power Adapter | |
| System BIOS | |
| BIOS Type | <ul style="list-style-type: none"> 128Mb SPI Flash with AMI BIOS |
| BIOS Features | <ul style="list-style-type: none"> PCI 3.0 ACPI 5.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.8 UEFI 2.4 RTC (Real Time Clock) Wakeup |
| Management | |
| Software | <ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SUM SuperDoctor® 5 Watch Dog |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management +12V DC Power Input Control of power-on for recovery from AC power loss CPU thermal trip support for processor protection M.2 NGFF connector, Node Manager Support, SDDC, System level control, UID, WOL |
| Fan | <ul style="list-style-type: none"> Fans with tachometer status monitoring Status monitor for speed control Low noise fan speed control Pulse Width Modulated (PWM) fan connectors |
| Operating Environment / Compliance | |
| RoHS | <ul style="list-style-type: none"> RoHS Compliant |
| Environmental Spec. | <ul style="list-style-type: none"> Operating Temperature: 0°C to 40°C (32°F to 104°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) |

Parts List

[Vhh#Sduw#Dlw](#)

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