

SuperServer E300-8D



Integrated Board



Super X10SDV-TP8F

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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
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

Note: Image above may show a varied configuration of 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 ■ SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe

Network Controllers ■ Dual 10G SFP+ from D-1500 SoC
■ Quad 1GbE with Intel I350-AM4
■ Dual 1GbE with Intel I210

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Graphics ■ Aspeed AST2400

USB 3.0 ■ Intel® SoC

TPM ■ TPM 2.0 header

Input / Output

SATA ■ 4 SATA3 (6Gbps) ports

LAN ■ 2 10G SFP+ LAN ports
■ 6 1GbE LAN ports
■ 1 Dedicated IPMI LAN port

USB ■ 2 USB 3.0 ports (rear)

Display ■ 1 VGA port

DOM ■ 2 SuperDOM (Disk on Module) power connectors

TPM ■ TPM 2.0 header

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

Fans ■ Passive CPU heat sink and max. 3x 40mm chassis fans

Power Supply

DC Power Adapter

System BIOS

BIOS Type ■ 128Mb SPI Flash with AMI BIOS

BIOS Features ■ 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 ■ 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
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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
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none">■ RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SDV-TP8F	1	Super X10SDV-TP8F Motherboard
	CSE-E300	1	Embedded Mini-ITX Chassis
Power Adapter	MCP-250-10122-0N	1	84W DC power adapter

Optional Parts List

	Part Number	Qty	Description
Riser Card	RSC-RR1U-E8	-	RSC-RR1U-E8 (Rev 4.00) Riser Card
Chassis Parts	MCP-290-30002-0B	-	CSE-E300 Rackmount kit
Cable	CBL-CUSB-0975	-	RJ45 SERIAL Cable for Console
Fan	FAN-0065L4	-	4028mm 13K RPM 4-PIN PWM FAN
Power Adapter	MCP-250-10127-0N	-	120W DC power adapter