

SuperServer E300-8D



Integrated Board



Super X10SDV-TP8F

View: | [Rackmount Kit](#) |

► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ► [Tested M.2 List](#) ► [Manuals](#) ► [OS Certification Matrix](#) ► [Drive Options](#)

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	■ 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	■ 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	■ RoHS Compliant
Environmental Spec.	■ 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

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