

SuperServer E300-9D



Integrated Board



Super X11SDV-4C-TLN2F

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

Product SKUs	
SYS-E300-9D	■ SuperServer E300-9D (Black)

Motherboard	
Super X11SDV-4C-TLN2F	

Processor/Cache	
CPU	■ Intel® Xeon® processor D-2123IT, CPU TDP support 60W
Cores / Cache	■ 4 Cores, 8 Threads

System Memory	
Memory Capacity	■ Up to 512GB DDR4 ECC LRDIMM ■ Up to 256GB DDR4 ECC RDIMM ■ 4 DIMM slots
Memory Type	■ 2666/2400/2133MHz ECC DDR4 ECC LRDIMM and ECC RDIMM ■ Operating speed up to 2400MHz
DIMM Sizes	■ RDIMM: 4GB, 8GB, 16GB, 32GB, 64GB ■ LRDIMM: 16GB, 32GB, 64GB, 128GB
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 10GBase-T LAN, SoC
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 AST2500 BMC

Input / Output	
SATA	■ 1 SATA3 (6Gbps) port (SATA/SAS HDD/SSD)
LAN	■ 2 10GBase-T LAN ports ■ 1 Dedicated IPMI LAN port
USB	■ 2 USB 3.0 ports (rear)
Display	■ 1 VGA port
TPM	■ 1 TPM 2.0 header



Key Features

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

1. Intel® Xeon® processor D-2123IT, 4-Core, 8 Threads, 60W
2. System on Chip
3. 1 Internal 2.5" drive bay
4. Up to 512GB ECC LRDIMM, up to 256GB ECC RDIMM
DDR4-2400Mz; in 4 DIMM slots
5. 1 onboard OCuLink port (or 1 PCI-E 3.0 x4 NVMe), 1 PCI-E 3.0 x8 (LP) open slot
6. 2x 10GBase-T LAN and 1 dedicated LAN for IPMI 2.0
7. 1 VGA, 2 USB 3.0, 1 TPM 2.0 header
8. 3x 40x28mm 4-PIN PWM Fan
9. 150W Lockable DC Power Adapter

Chassis

Form Factor	■ Compact
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 onboard OCuLink port (or 1 PCI-E 3.0 x4 NVMe) ■ 1 PCI-E 3.0 x8 (LP) open slot
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Drive Bays

Internal	■ 1 Internal 2.5" drive bay
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System Cooling

Fans	■ 3x 40x28mm 4-PIN PWM Fan
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Power Supply

150W Lockable DC power adapter (adapter cannot be mounted by the kit)

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 ■ <u>SuperDoctor® 5</u> ■ 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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SDV-4C-TLN2F CSE-E300	1	Super X11SDV-4C-TLN2F Motherboard Embedded Server BOX for Flex-ATX, Mini-ITX 1U height
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Power Adapter	MCP-250-10128-0N	1	150W Lockable Power Adapter with US power cord
Cooling Fan	FAN-0065L4	3	4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M

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 (150W/180W adapter supported)
Cable	CBL-CUSB-0975	-	RJ45 SERIAL Cable for Console