

SuperServer E301-9D-8CN8TP

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Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

Integrated Board



[Super X11SDV-8C-TP8F](#)

Key Features

- SDN-WAN, vCPE controller box
 - NFV Edge Computing Server
 - Virtualization Server
 - FireWall Applications
 - IoT Edge Computing
- Intel® Xeon® processor D-2146NT, 8-Core, 16 Threads, 80W
 - System on Chip
 - 4x 7mm SSD
 - 1 M.2 slot M key for SSD, 2242/80, 1 M.2 B Key for SSD/ WAN card, 1 Mini-PCI-E with mSATA Support, 1 PCI-E 3.0 x8 slot
 - Up to 512GB ECC LRDIMM, up to 256GB ECC/non-ECC RDIMM DDR4-2666Mz; in 4 DIMM slots
 - 4x 1GbE, 2x 10GBase-T, 2x 10G SFP+ and 1 dedicated LAN for IPMI 2.0
 - 1 VGA, 2 USB 3.0
 - 3x 40x28mm 4-PIN PWM Fan
 - DC Power adapter
 - Built in Intel QAT up to 40Gbps Crypto/Compression

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

Specifications ^

Product SKUs	
SYS-E301-9D-8CN8TP	SuperServer E301-9D-8CN8TP (Black)
Motherboard	
Super X11SDV-8C-TP8F	
Processor/Cache	
CPU	Intel® Xeon® processor D-2146NT, CPU TDP support 80W
Cores / Cache	8 Cores, 16 Threads
System Memory	
Memory Capacity	Up to 512GB DDR4 ECC LRDIMM Up to 256GB DDR4 ECC/non-ECC RDIMM 4 DIMM slots
Memory Type	2666/2400/2133MHz ECC DDR4 ECC LRDIMM and ECC/Non-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	SATA3 (6Gbps) ports via SoC controller
Network Controllers	Quad 1GbE with Intel I350-AM4 Dual 10GBase-T with Intel X557 Dual 10G SFP+ via 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	SoC controller for 4 SATA3 (6Gbps) ports
LAN	2x 10G SFP+ ports 2x 10GBase-T LAN ports 4x 1GbE LAN ports 1 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear)
Display	1 VGA port
TPM	1 TPM 2.0 header

Chassis	
Form Factor	Compact
Model	CSE-E301
Dimensions	
Width	10.43" (264.8mm) / 15" (381mm) - pkg.
Height	2.6" (66mm) / 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 slot
Drive Bays	
Internal	4x 7mm SSD
System Cooling	
Fans	3x 40x28mm 4-PIN PWM Fan
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 35°C (32°F to 95°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 v

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