

A+ Server E301-9D-8CN4



Integrated Board



M11SDV-8C-LN4F

Key Features

- Embedded IoT Computing
- SD-WAN and vCPE/uCPE
- Hyper-Converged Appliance
- Entry-level Network Appliance

1. AMD EPYC™ 3251 SoC Processor,
8 Core/16 Thread, 2.5GHz/50W

2. System on Chip

3. 2 Fixed 2.5" drive bay bracket

4. 1 PCI-E 3.0 x16 AOC slot (LP)
1 M.2 PCI-E 3.0 x4, 2280, M Key

5. Up to 512GB ECC Registered
DDR4-2666Mz SDRAM in 4 DIMMs

6. 4 Gigabit Ethernet ports,
1 dedicated IPMI LAN

7. 1 VGA, 2 USB 3.0

8. 2x 40x28mm 4-PIN PWM Fans

9. Lockable 12V DC 150W power adapter



► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ► [Tested M.2 List](#) ► [Manuals](#)

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

Specifications

Product SKUs

AS -E301-9D-8CN4	■ A+ Server E301-9D-8CN4 (Black)
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Motherboard

Super M11SDV-8C-LN4F

Processor/Cache

CPU	■ Single AMD EPYC™ 3251 SoC Processor
Cores	■ 8 Core/16 Thread

System Memory

Memory Capacity	■ 4 DIMM slots ■ Supports up to 512GB Registered RCC DDR4 2666MHz SDRAM in 4 DIMMs ■ 4-channel memory bus
Memory Type	■ DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs
DIMM Sizes	■ 8GB, 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
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	■ 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	■ 1.5U Compact Box
Model	■ CSE-E301

Dimensions

Width	■ 10" (254mm) / 15" (381mm) - pkg.
Height	■ 2.6" (66mm) / 10.87" (276mm) - pkg.
Depth	■ 8.9" (226mm) / 5.59" (142mm) - pkg.
Weight	■ Gross Weight: 6.8 lbs (3.08 kg) ■ Net Weight: 4.93 lbs (2.24 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 x16 AOC slot (LP) ■ 1 M.2 PCI-E 3.0 x4, 2280, M Key
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Drive Bays

Internal	■ 2 Fixed 2.5" drive bay bracket, supporting 15mm 2.5" Enterprise drive
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System Cooling

Fans	■ 2x 40x28mm 4-PIN PWM Fans (FAN-0065L4, 13K RPM)
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Power Supply

Lockable 12V DC 150W power adapter

System BIOS

BIOS Type	■ AMI 64Mb Flash EEPROM
BIOS Features	■ Plug and Play (PnP) ■ DMI 2.3 ■ ACPI 5.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI

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-M11SDV-8C-LN4F	1	Super M11SDV-8C-LN4F Motherboard
	CSE-E301	1	Embedded Server BOX for Flex-ATX, Mini-ITX 1U height
Power Adapter	MCP-250-10128-0N	1	150W Lockable Pow er Adapter w ith US pow er cord
Cooling Fan	FAN-0065L4	2	40x28mm 13K RPM 4-PIN PWM FAN