

M11SDV-8C-LN4F



Key Features

1. AMD EPYC™ 3251 SoC Processor, 8 Core/16 Thread, 55W
2. Up to 512GB ECC Registered, DDR4-2666MHz SDRAM in 4 DIMMs
3. 1 PCI-E 3.0 x16 slot, 1 M.2 PCI-E 3.0 x4, 2280, M Key
4. SoC controller for 4 SATA 3.0
5. 4 Gigabit Ethernet ports, 1 dedicated IPMI LAN
6. ASPEED AST2500 BMC graphics
7. Up to 2 USB 3.0 ports, Up to 6 USB 2.0 ports
8. 1 COM port, TPM 2.0 header
9. 3 fan header, 4-pin type fan header, 3 fans with tachometer monitoring

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Quick Reference Guide](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility](#)



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

Specifications

Product SKUs

MBD-M11SDV-8C-LN4F	■ M11SDV-8C-LN4F
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Physical Stats

Form Factor	■ Mini-ITX
Dimensions	■ 6.7" x 6.7" (17cm x 17cm)

Processor/Cache

CPU	■ Single AMD EPYC™ 3251 SoC Processor
Cores	■ 8 Core/16 Thread
Chipset	■ System on Chip

System Memory

Memory Capacity	■ 4 DIMM slots ■ Supports up to 512GB Registered ECC DDR4 2666MHz SDRAM in 4 DIMMs ■ 2-channel memory bus
Memory Type	■ DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs
DIMM Sizes	■ 8GB, 16GB, 32GB, 64GB, 128GB
Memory Voltage	■ 1.2V
Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	■ SATA3 (6 Gbps)
Network Controllers	■ 4x 1GbE with Intel® I350-AM4 ■ 1 Realtek RTL8211E PHY (dedicated IPMI)
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2500 BMC
VGA	■ ASPEED AST2500 BMC

Input / Output

SATA	■ 4 SATA3 (6 Gbps) ports
LAN	■ 4 RJ45 Gigabit Ethernet LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 3.0 ports ■ 6 USB 2.0 ports
VGA	■ 1 VGA port
Others	■ 1 COM port header ■ 1 TPM 2.0 header

Expansion Slots

PCI-Express	■ 1 PCI-E 3.0 x16 slot
M.2	■ Interface: 1 PCI-E 3.0 x4 ■ Form factor: 2280 ■ Key: M-key

Chassis (Optimized for M11SDV-8C-LN4F)

1U	■ SCE300 ■ SCE301
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Server(s) (with M11SDV-8C-LN4F)

Model(s)	■ AS -5019D-FTN4 ■ AS -E301-9D-8CN4
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System BIOS

BIOS Type	■ AMI 128Mb Flash EEPROM
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Management

Software	■ Super Doctor 5 ■ Watch Dog ■ NMI ■ SUM ■ IPMI 2.0 , KVM with dedicated LAN
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Power Configurations	■ ACPI Power Management ■ Power-on mode control for AC power loss recovery
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PC Health Monitoring

CPU	■ Monitors CPU Core Voltages, +1.8V, +3.3V, +12V ■ CPU switching voltage regulator ■ Supports system management utility ■ VBAT
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FAN	■ Up to 3 fan status tachometer monitoring ■ Up to 3 4-pin fan headers ■ Dual Cooling Zone ■ Status monitor for speed control ■ Pulse Width Modulated (PWM) fan connectors
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Temperature	■ Monitoring for CPU and chassis environment ■ CPU Thermal Trip Support ■ Thermal control for 6x Fan connectors ■ I ² C Temperature Sensing Logic
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LED	■ CPU / System Overheat LED
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Other Features	■ UID
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Operating Environment / Compliance

Environmental Specifications	■ Operating Temperature: 0°C to 60°C (32°F to 140°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

Bulk Pack List

	Part Number	Qty	Description
Motherboard	MBD-M11SDV-8C-LN4F	1	M11SDV-8C-LN4F Motherboard
SATA Cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
SATA Power Cable	CBL-PWEX-0982	1	SATA Power Cable 25cm
ATX Power Cable	CBL-PWEX-1063	1	6CM ATX Power Signal Cable
I/O Shield	MCP-260-00084-0N	1	Standard I/O Shield

Retail Pack List

	Part Number	Qty	Description
Motherboard	MBD-M11SDV-8C-LN4F	1	M11SDV-8C-LN4F Motherboard
QRG	MNL-2172-QRG	1	Motherboard Quick Reference Guide
SATA Cable	CBL-0044L	4	57.5CM SATA FLAT S-S PBF
SATA Power Cable	CBL-PWEX-0982	1	SATA Power Cable 25cm
ATX Power Cable	CBL-PWEX-1063	1	6CM ATX Power Signal Cable
I/O Shield	MCP-260-00084-0N	1	Standard I/O Shield

Optional Parts List

	Part Number	Qty	Description
I/O Shield	MCP-260-00084-0N	-	Standard I/O Shield for M11SDV-8C-LN4F in CSE-721
I/O Shield	MCP-260-00085-0B	-	Standard I/O Shield for M11SDV-8C-LN4F in CSE-504/505
I/O Shield	MCP-260-30001-0B	-	Standard I/O Shield for M11SDV-8C-LN4F in CSE-101F
I/O Shield	MCP-260-30001-0B	-	Standard I/O Shield for M11SDV-8C-LN4F in CSE-E300/301
TPM security module	<u>AOM-TPM-9665V</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V-S</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Provisioned for TXT
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V-S</u>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Provisioned for TXT