



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, MKey

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

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](#)

Server(s) (with M11SDV-8C-LN4F)

- **Model(s)** ■ [AS -5019D-FTN4](#)
■ [AS -E301-9D-8CN4](#)

System BIOS

- **BIOS Type** ■ AMI 128Mb Flash EEPROM

Management

- **Software** ■ [Super Doctor 5](#)
■ Watch Dog
■ NMI
■ SUM
■ [IPMI 2.0](#), KVM with dedicated LAN
- **Power Configurations** ■ ACPI Power Management
■ Power-on mode control for AC power loss recovery

PC Health Monitoring

- **CPU** ■ Monitors CPU Core Voltages, +1.8V, +3.3V, +12V
■ CPU switching voltage regulator
■ Supports system management utility
■ VBAT
- **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
- **Temperature** ■ Monitoring for CPU and chassis environment
■ CPU Thermal Trip Support
■ Thermal control for 6x Fan connectors
■ PC Temperature Sensing Logic
- **LED** ■ CPU / System Overheat LED
- **Other Features** ■ Chassis Intrusion Detection
■ Chassis Intrusion Header
■ UID

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)

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

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-9655V</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9655V-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