M11SDV-4C-LN4F

Key Features

1. AMD EPYC™ 3151 SoC Processor,
4 Core/8 Thread, 45W

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

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

Links & Resources

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

Specifications

Product SKUs

MBD-M11SDV-4C-LN4F	M11SDV-4C-LN4F

Physical Stats

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

Processor/Cache

CPU	Single AMD EPYC™ 3151 SoC Processor
Cores	4 Core/8 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 Inte® 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-4C-LN4F)

1U	SCE300 SCE301

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 I²C 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-4C-LN4F	1	M11SDV-4C-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-4C-LN4F	1	M11SDV-4C-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-4C-LN4F in CSE-721
I/O Shield	MCP-260-00085-0B	-	Standard I/O Shield for M11SDV-4C-LN4F in CSE-504/505
I/O Shield	MCP-260-30001-0B	-	Standard I/O Shield for M11SDV-4C-LN4F in CSE-101F
I/O Shield	MCP-260-30001-0B	-	Standard I/O Shield for M11SDV-4C-LN4F in CSE-E300/301
TPM security module	AOM-TPM-9655V	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	AOM-TPM-9655V-S	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF; Provisioned for TXT
	AOM-TPM-9665V	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;
	AOM-TPM-9665V-S	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF; Provisioned for TXT