

# Supermicro MBD-H11SSL-NC, Single AMD EPYC 7000-Series, System on Chip, SATA, LSI3008 2xGbE, IPMI Bu

Part number: MBD-H11SSL-NC-B



Category	Server
Form Factor	ATX
Dimensions	12" x 9.6"
CPU Socket	LGA 4094 (Socket SP3)
# of CPU sockets	1
Supported CPU's	AMD EPYC 7001 AMD EPYC 7002
Chipset	System on Chip
Memory Type	DDR4 ECC RDIMM
Memory Speed	2666 MHz
# of DIMM's	8
Max Memory Size	1024 GB
Integrated GPU	Aspeed AST2500
# of PCIe x16 3.0	3
# of PCIe x8 3.0	3
# of SATA Ports	8
# of NVMe ports	2
# of SAS Ports	8
Storage Controllers	6 x AHCI iSATA 6Gb/s LSI 3008 12Gb/s
Integrated RAID	0,1,10
# of Serial Ports	1 x Fast UART 16550 (rear)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i210 Dual Port Gigabit Ethernet
Integrated BMC	IPMI Dedicated RJ45
BMC chip	ASPEED AST2500
TPM	1 x TPM 2.0 20-pin Header

## Product SKUs

MBD-H11SSL-NC • H11SSL-NC  
MBD-H11SSL-NC-B • H11SSL-NC (Bulk Pack)

## Physical Stats

Form Factor • ATX  
Dimensions • 12" x 9.6" (30.5cm x 24.4cm)

## Processor/Chipset

CPU • Single AMD EPYC™ 7000-series Processor  
• Socket SP3  
Chipset • System on Chip

## System Memory

Memory Capacity • 8 DIMM slots  
• Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs  
• 8-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)  
• Broadcom 3008 SAS3 (12 Gbps) controller  
SAS • RAID 0, 1, 10;  
• Support for Intelligent Platform Management Interface v.2.0  
IPMI • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  
• ASPEED AST2500 BMC  
Network Controllers • 2 1GbE LAN via Intel® I210  
• 1 Realtek RTL8211E PHY (dedicated IPMI)  
VGA • ASPEED AST2500 BMC

## Input / Output

SAS • 8 SAS3 (12 Gbps) ports  
SATA • 8 SATA3 (6 Gbps) ports  
NVMe • 2 PCI-E 3.0 NVMe x4 Internal Ports  
LAN • 2 RJ45 Gigabit Ethernet LAN ports  
• 1 RJ45 Dedicated IPMI LAN port  
• 5 USB 3.0 ports  
USB (2 rear, + 2 via header + 1 Type A) • 4 USB 2.0 ports (2 rear + 2 via header)  
VGA • 1 VGA port  
• 1 COM port (rear)  
Others • 2 SATA DOM power connector  
• 1 TPM 1.2 header

## Expansion Slots

PCI-Express • 3 PCI-E 3.0 x8  
• 3 PCI-E 3.0 x16  
 M.2 • Interface: PCI-E 3.0 x4  
• Form factor: 2260, 2280, 22110  
• Support SATA devices

## System BIOS

BIOS Type • AMI 128Mb SPI Flash EEPROM  
• Plug and Play (PnP)  
• DMI 2.3  
• PCI 2.2  
BIOS Features • ACPI 5.1  
• USB Keyboard Support  
• SMBIOS 3.1.1

## Management

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

## PC Health Monitoring

• Monitors CPU Core Voltages, +1.8V, +3.3V, +5V, +5V standby, +3.3V standby  
CPU • CPU switching voltage regulator  
• Supports system management utility  
• VBAT  
• Up to 7-fan status tachometer monitoring  
• Up to 7 4-pin fan headers  
FAN • Dual Cooling Zone  
• Status monitor for speed control  
• Pulse Width Modulated (PWM) fan connectors  
• Monitoring for CPU and chassis environment  
Temperature • CPU Thermal Trip Support  
• Thermal control for 7x Fan connectors  
• I°C Temperature Sensing Logic  
LED • CPU / System Overheat LED  
• Chassis Intrusion Detection  
Other Features • Chassis Intrusion Header  
• UID

## Operating Environment / Compliance

• Operating Temperature: 10°C to 35°C (50°F to 95°F)  
• Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)  
Environmental Specifications • Operating Relative Humidity: 8% to 90% (non-condensing)  
• Non-operating Relative Humidity: 5% to 95% (non-condensing)

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