

# H11SSL-NC



## Key Features

1. Single AMD EPYC™ 7001/7002\* Series Processor (\*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs  
2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs (Board revision 2.x required)
3. Expansion slots:  
3 PCI-E 3.0 x16  
3 PCI-E 3.0 x8  
**M.2 Interface:** 1 PCI-E 3.0 x4  
**M.2 Form Factor:** 2280, 22110  
**M.2 Key:** M-key
4. 8 SATA 3.0 + Broadcom 3008 for  
8 SAS3 ports + 2 NVMe, 1 M.2
5. Dual Gigabit Ethernet LAN Ports
6. ASPEED AST2500 BMC graphics
7. Up to 5 USB 3.0 ports  
(2 rear + 2 via header + 1 Type A)  
Up to 4 USB 2.0 ports  
(2 rear + 2 via header)
8. 7 PWM 4-pin Fans with tachometer status monitoring

## Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [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

<b>MBD-H11SSL-NC</b>	<ul style="list-style-type: none"> <li>H11SSL-NC</li> </ul>
<b>MBD-H11SSL-NC-B</b>	<ul style="list-style-type: none"> <li>H11SSL-NC (Bulk Pack)</li> </ul>
<b>MBD-H11SSL-NC-O</b>	<ul style="list-style-type: none"> <li>H11SSL-NC (Retail Pack)</li> </ul>

## Physical Stats

<b>Form Factor</b>	<ul style="list-style-type: none"> <li>ATX</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>12" x 9.6" (30.5cm x 24.4cm)</li> </ul>

## Processor/Chipset

<b>CPU</b>	<ul style="list-style-type: none"> <li>Single AMD EPYC™ 7001/7002* series Processor (*Board revision 2.x required)</li> <li>Socket SP3</li> </ul>
<b>Cores</b>	<ul style="list-style-type: none"> <li>Up to 32 Cores</li> <li>Up to 64 Cores (Board revision 2.x required)</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>System on Chip</li> </ul>

## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>8 DIMM slots</li> <li>Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs</li> <li>Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required)</li> <li>8-channel memory bus</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs</li> <li>DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required)</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (*Board revision 2.x required)</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

## On-Board Devices

<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6 Gbps)</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>Broadcom 3008 SAS3 (12 Gbps) controller</li> <li>RAID 0, 1, 10</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2500 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>2 1GbE LAN via Intel® I210</li> <li>1 Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>

## Input / Output

<b>SAS</b>	<ul style="list-style-type: none"> <li>8 SAS3 (12 Gbps) ports</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>8 SATA3 (6 Gbps) ports</li> </ul>
<b>NVMe</b>	<ul style="list-style-type: none"> <li>2 PCI-E 3.0 NVMe x4 Internal Ports</li> </ul>

## Chassis ( Optimized for H11SSL-NC )

<b>1U</b>	<ul style="list-style-type: none"> <li>SC813MFTQC-350CB2</li> <li>SC813MFTQC-R407CB</li> </ul>
<b>2U</b>	<ul style="list-style-type: none"> <li>SC213AC-R1K23LPB</li> <li>SC216BE1C4-R1K23LPB</li> <li>SC825TQC-R740LPB</li> <li>SC826BE1C4-R1K23LPB</li> </ul>
<b>3U</b>	<ul style="list-style-type: none"> <li>SC836BE1C-R1K23B</li> </ul>
<b>4U</b>	<ul style="list-style-type: none"> <li>SC745BAC-R1K28B2</li> <li>SC846BE1C-R1K23B</li> </ul>

## System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>AMI 128Mb SPI Flash EEPROM</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>PCI 2.2</li> <li>ACPI 5.1</li> <li>USB Keyboard Support</li> <li>SMBIOS 3.1.1</li> </ul>

## Management

<b>Software</b>	<ul style="list-style-type: none"> <li>Super Doctor 5</li> <li>Watch Dog</li> <li>NMI</li> <li>SUM</li> <li>IPMI 2.0, KVM with dedicated LAN</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>ACPI Power Management</li> <li>Power-on mode control for AC power loss recovery</li> </ul>

## PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors CPU Core Voltages, +1.8V, +3.3V, +5V, +5V standby, +3.3V standby</li> <li>CPU switching voltage regulator</li> <li>Supports system management utility</li> <li>VBAT</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Up to 7-fan status tachometer monitoring</li> <li>Up to 7 4-pin fan headers</li> <li>Dual Cooling Zone</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>Thermal control for 7x Fan connectors</li> <li>I<sup>2</sup>C Temperature Sensing Logic</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis Intrusion Detection</li> <li>Chassis Intrusion Header</li> <li>UID</li> </ul>

## Operating Environment / Compliance

<b>Environmental Specifications</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>
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<b>LAN</b>	<ul style="list-style-type: none"><li>■ 2 RJ45 Gigabit Ethernet LAN ports</li><li>■ 1 RJ45 Dedicated IPMI LAN port</li></ul>
<b>USB</b>	<ul style="list-style-type: none"><li>■ 5 USB 3.0 ports (2 rear + 2 via header + 1 Type A)</li><li>■ 4 USB 2.0 ports (2 rear + 2 via header)</li></ul>
<b>VGA</b>	<ul style="list-style-type: none"><li>■ 1 VGA port</li></ul>
<b>Others</b>	<ul style="list-style-type: none"><li>■ 1 COM port (rear)</li><li>■ 2 SATA DOM power connector</li><li>■ 1 TPM 2.0 header</li></ul>

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#### Expansion Slots

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<b>PCI-Express</b>	<ul style="list-style-type: none"><li>■ 3 PCI-E 3.0 x8</li><li>■ 3 PCI-E 3.0 x16</li></ul>
<b>M.2</b>	<ul style="list-style-type: none"><li>■ Interface: PCI-E 3.0 x4</li><li>■ Form factor: 2280, 22110</li><li>■ Key: M-key</li></ul>

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## Parts List

### Bulk Pack List

	Part Number	Qty	Description
<b>H11SSL-NC</b>	MBD-H11SSL-NC-B	1	H11SSL-NC Motherboard
<b>I/O Cable</b>	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
<b>I/O Shield</b>	MCP-260-00042-0N	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

### Retail Pack List

	Part Number	Qty	Description
<b>H11SSL-NC</b>	MBD-H11SSL-NC-O	1	H11SSL-NC Motherboard
<b>I/O Cable</b>	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
<b>I/O Cable</b>	CBL-SAST-0658	2	INT Mini-SAS HD CBL for PCIe SSD NVMe 12Gb/s 60cm 30AWG
<b>I/O Shield</b>	MCP-260-00042-0N	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

### Optional Parts List

	Part Number	Qty	Description
<b>I/O Cable</b>	CBL-SAST-0699	-	MINI SAS HD-4 SATA,12G,INT,75/75/90/90CM,75CM SB,28/30AWG,Ro
<b>I/O Cable</b>	CBL-SAST-0658	-	INT Mini-SAS HD CBL for PCIe SSD NVMe 12Gb/s 60cm 30AWG
<b>TPM security module</b>	<u>AOM-TPM-9655V</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;