

# H11DSi



## Key Features

1. Dual AMD EPYC™ 7001/7002\* Series Processors (\*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs  
4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs (Board revision 2.x required)
3. Expansion slots:  
2 PCI-E 3.0 x16  
3 PCI-E 3.0 x8  
**M.2 Interface:** 1 SATA/PCI-E 3.0 x2 (Platform with EPYC 7002 processor only supports PCI-E type M.2 module)  
**M.2 Form Factor:** 2280, 22110  
**M.2 Key:** M-key
4. 10 SATA3, 1 M.2, 2 SATA DOM
5. Dual Gigabit Ethernet LAN Ports
6. ASPEED AST2500 BMC graphics
7. Up to 2 USB 3.0 ports  
Up to 4 USB 2.0 ports
8. 8 4-pin PWM Fan & Speed control

## Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD 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-H11DSi</b>	■ H11DSi
<b>MBD-H11DSi-B</b>	■ H11DSi (Bulk Pack)

## Physical Stats

<b>Form Factor</b>	■ E-ATX
<b>Dimensions</b>	■ 12" x 13.05" (30.5cm x 33.1cm)

## Processor/Chipset

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Dual AMD EPYC™ 7001/7002* series Processors (*Board revision 2.x required)</li> <li>■ Socket SP3</li> <li>■ Up to 240W TDP</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>	■ System on Chip

## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>■ 16 DIMM sockets</li> <li>■ Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs</li> <li>■ Supports up to 4TB 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>	■ 8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (*Board revision 2.x required)
<b>Memory Voltage</b>	■ 1.2V
<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>	■ SATA3 (6 Gbps)
<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® i350-AM21</li> <li>■ 1 Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>VGA</b>	■ ASPEED AST2500 BMC

## Input / Output

<b>SATA</b>	■ 10 SATA3 (6 Gbps) ports
<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>■ 2 USB 3.0 ports (rear)</li> <li>■ 4 USB 2.0 ports (2 rear + 2 via header)</li> </ul>
<b>VGA</b>	■ 1 VGA port

## Chassis ( Optimized for H11DSi )

<b>2U</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SC213AC-R1K23LPB</a></li> <li>■ <a href="#">SC216BE1C4-R1K23LPB</a></li> <li>■ <a href="#">SC825TQC-R802LPB</a></li> <li>■ <a href="#">SC826BE1C4-R1K23LPB</a></li> <li>■ <a href="#">SC829HE1C4-R1K62LPB</a></li> </ul>
<b>3U</b>	■ <a href="#">SC836BE1C-R1K23B</a>
<b>4U</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SC745BAC-R1K28B2</a></li> <li>■ <a href="#">SC846BE1C-R1K23B</a></li> </ul>

## System BIOS

<b>BIOS Type</b>	■ AMI 128Mb SPI Flash EEPROM
<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>■ <a href="#">Super Doctor 5</a></li> <li>■ Watch Dog</li> <li>■ NMI</li> <li>■ <a href="#">SUM</a></li> <li>■ <a href="#">IPMI 2.0</a>, 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, +1.5V, +1.8V, +12V +5V, +5V 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 8-fan status tachometer monitoring</li> <li>■ Up to eight 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 8x Fan connectors</li> <li>■ I<sup>2</sup>C Temperature Sensing Logic</li> </ul>
<b>LED</b>	■ CPU / System Overheat LED
<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>
-------------------------------------	---

- 
- Others**
- 1 COM port (rear)
  - 2 SATA DOM power connector
  - 1 TPM 2.0 header
- 

#### Expansion Slots

- PCI-Express**
- 3 PCI-E 3.0 x8
  - 2 PCI-E 3.0 x16
- 

- M.2**
- Interface: 1 SATA/PCI-E 3.0 x2  
(Platform with EPYC 7002 processor only supports PCI-E type M.2 module)
  - Form factor: 2280, 22110
  - Key: M-key
-

## Parts List

### Bulk Pack List

	Part Number	Qty	Description
<b>H11DSI</b>	MBD-H11DSI-B	1	H11DSI 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

### Optional Parts List

	Part Number	Qty	Description
<b>I/O Cable</b>	CBL-0097L-03	2	lpass to 4 SATA, 51cm, W/51cm SB, S, 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;