

H11DSi-NT



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 10GBase-T 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 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

MBD-H11DSi-NT	<ul style="list-style-type: none"> H11DSi-NT
MBD-H11DSi-NT-B	<ul style="list-style-type: none"> H11DSi-NT (Bulk Pack)

Physical Stats

Form Factor	<ul style="list-style-type: none"> E-ATX
Dimensions	<ul style="list-style-type: none"> 12" x 13.05" (30.5cm x 33.1cm)

Processor/Chipset

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

System Memory

Memory Capacity	<ul style="list-style-type: none"> 16 DIMM sockets Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required) 8-channel memory bus
Memory Type	<ul style="list-style-type: none"> DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required)
DIMM Sizes	<ul style="list-style-type: none"> 8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (*Board revision 2.x required)
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	<ul style="list-style-type: none"> SATA3 (6 Gbps)
IPMI	<ul style="list-style-type: none"> 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
Network Controllers	<ul style="list-style-type: none"> Intel® X550 10G Base-T Ethernet Controller 1 Realtek RTL8211E PHY (dedicated IPMI)
VGA	<ul style="list-style-type: none"> ASPEED AST2500 BMC

Input / Output

SATA	<ul style="list-style-type: none"> 10 SATA3 (6 Gbps) ports
NVMe	<ul style="list-style-type: none"> 2 Internal NVMe Ports (PCI-E 3.0 x4)
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 4 USB 2.0 ports (2 rear + 2 via header)
VGA	<ul style="list-style-type: none"> 1 VGA port

Chassis (Optimized for H11DSi-NT)

2U	<ul style="list-style-type: none"> SC213AC-R1K23LPB SC216BE1C4-R1K23LPB SC826BE1C4-R1K23LPB SC829HE1C4-R1K62LPB
3U	<ul style="list-style-type: none"> SC836BE1C-R1K23B
4U	<ul style="list-style-type: none"> SC745BAC-R1K28B2 SC846BE1C-R1K23B

Server(s) (with H11DSi-NT)

Model(s)	<ul style="list-style-type: none"> AS_4023S-TRT
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System BIOS

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

Management

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

PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors CPU Core Voltages, +1.1V, +1.5V, +1.8V, +12V, +5V, +5V standby CPU switching voltage regulator
FAN	<ul style="list-style-type: none"> Up to 8-fan status tachometer monitoring Up to eight 4-pin fan headers Dual Cooling Zone Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU Thermal Trip Support Thermal control for 8x Fan connectors I²C Temperature Sensing Logic
LED	<ul style="list-style-type: none"> CPU / System Overheat LED
Other Features	<ul style="list-style-type: none"> Chassis Intrusion Detection Chassis Intrusion Header UID

Operating Environment / Compliance

Environmental Specifications	<ul style="list-style-type: none"> 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) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
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- Others**
- 1 COM port (rear)
 - 2 SATA DOM power connectors
 - 1 TPM 2.0 header
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Expansion Slots

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

Bulk Pack List

	Part Number	Qty	Description
H11DSI-NT	MBD-H11DSI-NT-B	1	H11DSI-NT Motherboard
I/O Cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

Optional Parts List

	Part Number	Qty	Description
I/O Cable	CBL-0097L-03	2	lpass to 4 SATA, 51cm, W/51cm SB, S, 30AWG
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