

H11DST-B (For A+ Server Only)



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:
 - 1 PCI-E 3.0 x16 Left Riser Slot
 - 1 PCI-E 3.0 x16 Right Riser Slot
 - 1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card)
 - 1 PCI-E 3.0 x16 SIOM LAN Networking Slot

M.2 Interface: 1 SATA/PCI-E 3.0 x4
M.2 Form Factor: 2280, 22110
M.2 Key: M-key
4. 6 SATA3, 1 M.2, 1 SATA DOM
5. Onboard LAN Provided via SIOM
6. ASPEED AST2500 BMC graphics
7. Up to 2 USB 3.0 ports (Rear)
1 USB 2.0 port (Type A)
8. 2 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-H11DST-B** ■ H11DST-B (for server SKUs only)

Physical Stats

- Form Factor** ■ Proprietary BigTwin™
Dimensions ■ 7.62" x 18.86"

Processor/Chipset

- CPU** ■ Dual AMD EPYC™ 7001/7002* series Processors (*Board revision 2.x required)
 ■ Socket SP3
Cores ■ Up to 32 Cores
 ■ Up to 64 Cores (Board revision 2.x required)
Chipset ■ System on Chip

System Memory

- Memory Capacity** ■ 16 DIMM sockets
 ■ Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs
 ■ Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required)
 ■ 8-channel memory bus
Memory Type ■ 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 ■ 8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (*Board revision 2.x required)
Memory Voltage ■ 1.2V
Error Detection ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

- SATA** ■ SATA3 (6 Gbps)
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
Network Controllers ■ 1 PCI-E 3.0 x16 SIOM LAN Networking Slot
 ■ 1 Realtek RTL8211E PHY (dedicated IPMI)
VGA ■ ASPEED AST2500 BMC

Input / Output

- SATA** ■ 6 SATA3 (6 Gbps) ports
LAN ■ Provided via SIOM
 ■ 1 RJ45 Dedicated IPMI LAN port
USB ■ 2 USB 3.0 ports (2 rear)
 ■ 1 USB 2.0 port (Type A)
VGA ■ 1 VGA port

Chassis (Optimized for H11DST-B)

- 2U** ■ SC217BHQ+-R2K22BP

Server(s) (with H11DST-B)

- Model(s)** ■ [AS -2123BT-HNC0R](#)
 ■ [AS -2123BT-HNR](#)
 ■ [AS -2123BT-HTR](#)

System BIOS

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

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, +1.5V, +1.8V, +12V, +5V, +5V standby
 ■ CPU switching voltage regulator
FAN ■ Up to 2 fan status tachometer monitoring
 ■ Up to 2 4-pin fan headers
 ■ 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 8x Fan connectors
 ■ I²C Temperature Sensing Logic
LED ■ CPU / System Overheat LED
Other Features ■ Chassis Intrusion Detection
 ■ Chassis Intrusion Header

Operating Environment / Compliance

- Environmental Specifications** ■ 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 (header)
 - 1 SATA DOM power connector
 - 1 TPM 2.0 header
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Expansion Slots

- PCI-Express**
- 1 PCI-E 3.0 x16 Left Riser Slot
 - 1 PCI-E 3.0 x16 Right Riser Slot
 - 1 PCI-E 3.0 x24 Proprietary Slot
(for Supermicro storage add-on card)
 - 1 PCI-E 3.0 x16 SIOM LAN
Networking Slot
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- M.2**
- Interface: 1 SATA/PCI-E 3.0 x4
 - Form Factor: 2280, 22110
 - Key: M-key
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Parts List

Retail Pack List

	Part Number	Qty	Description
H11DST-B	MBD-H11DST-B -O	1	H11DST-B Motherboard

Optional Parts List

	Part Number	Qty	Description
TPM security module	<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;