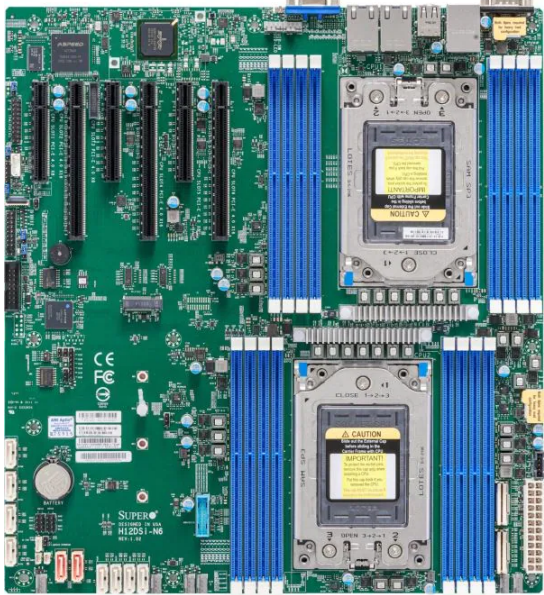


# H12DSi-N6



### Key Features

1. Dual AMD EPYC™ 7003/7002 Series Processors (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)
2. 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs
3. Expansion slots: 3 PCI-E 4.0 x16 slots, 3 PCI-E 4.0 x8 slots <b>M.2 Interface:</b> 1 PCI-E 4.0 x4 <b>M.2 Form Factor:</b> 2280, 22110 <b>M.2 Key:</b> M-key
4. 10 SATA3, 2 SATADOM, 4 NVMe
5. Dual Gigabit LAN ports, 1 dedicated IPMI LAN Port
6. ASPEED AST2600 BMC graphics
7. 2 USB 2.0 ports (rear), 4 USB 3.0 ports (2 rear, 2 headers)
8. 8x 4-pin PWM Fans & Speed control

Note: Image above may show a varied configuration of optional parts.  
Please refer to parts list for standard parts included.

### 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](#)



Specifications

Product SKUs

MBD-H12DSi-N6	■ H12DSi-N6
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Physical Stats

Form Factor	■ EATX
Dimensions	■ 12" x 13.05" (30.5cm x 33.1cm)

Processor/Chipset

CPU	■ Dual AMD EPYC™ 7003/7002 Series Processors (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer) ■ Socket SP3
Cores	■ Up to 64 Cores
Chipset	■ System on Chip

System Memory

Memory Capacity	■ 16 DIMM slots ■ Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM ■ 8-channel memory bus ■ For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks
Memory Type	■ DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs
DIMM Sizes	■ 8GB, 16GB, 32GB, 64GB, 128GB, 256GB
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 AST2600 BMC
Network Controllers	■ Dual LAN via Broadcom BCM5720L Gigabit Ethernet Controller
VGA	■ ASPEED AST2600 BMC

Input / Output

SATA	■ 10 SATA3 (6 Gbps) ports
LAN	■ 2x 1GbE LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 2.0 ports (rear) ■ 4 USB 3.0 ports (2 rear, 2 headers)
VGA	■ 1 VGA port
Others	■ 1 COM port (rear) ■ 2 SATA DOM power connectors ■ 4 PCI-E 4.0 NVMe x4 internal ports ■ TPM 2.0 header

Chassis ( Optimized for H12DSi-N6)

2U	■ <a href="#">SCLA25TQC-R609LP</a> ■ <a href="#">SCLA26AC12-R920LP1</a>
3U	■ <a href="#">SC835TQC-R1K03B</a>

Server(s) (with H12DSi-N6)

Model(s)	■ <a href="#">AS -2024S-TR</a>
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System BIOS

BIOS Type	■ AMI 256Mb SPI Flash EEPROM
BIOS Features	■ Plug and Play (PnP) ■ DMI 2.3 ■ PCI 2.2 ■ ACPI 6.2 ■ USB Keyboard Support ■ SMBIOS 3.1.1

Management

Software	■ <a href="#">Super Doctor 5</a> ■ Watch Dog ■ NMI ■ SUM ■ <a href="#">IPMI 2.0</a> , 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 ■ VBAT
FAN	■ Up to 8 fan status tachometer monitoring ■ Up to 8x 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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Expansion Slots

PCI-Express

- 3 PCI-E 4.0 x16 slots
- 3 PCI-E 4.0 x8 slots

M.2

- Interface: 1 PCI-E 4.0 x4
- Form Factor: 2280, 22110
- Key: M-key

Parts List

Bulk Pack List

	Part Number	Qty	Description
Motherboard	MBD-H12DSi-N6-B	1	H12DSi-N6 Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD
I/O Cables	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

Retail Pack List

	Part Number	Qty	Description
Motherboard	MBD-H12DSi-N6-O	1	H12DSi-N6 Motherboard
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD
I/O Cables	CBL-0044L	4	57.5CM SATA FLAT S-S PBF

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;