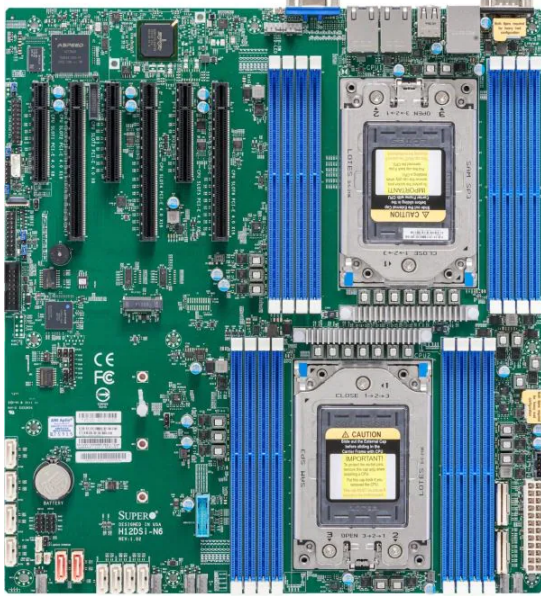


H12DSi-N6



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](#)



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
M.2 Interface: 1 PCI-E 4.0 x4
M.2 Form Factor: 2280, 22110
M.2 Key: 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.

Specifications

Product SKUs

MBD-H12DSi-N6
H12DSi-N6

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

Chassis (Optimized for H12DSi-N6)

2U

SCLA25TQC-R609LP

SCLA26AC12-R920LP1

3U

SC835TQC-R1K03B

Server(s) (with H12DSi-N6)

Model(s)

AS -2024S-TR

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

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

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

Others

- 1 COM port (rear)
 - 2 SATA DOM power connectors
 - 4 PCI-E 4.0 NVMe x4 internal ports
 - TPM 2.0 header
-

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
-

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)
-

Parts List