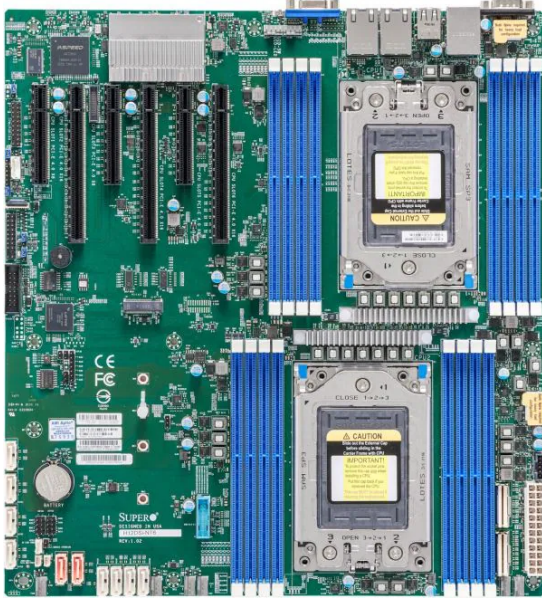


H12DSi-NT6



(/a_images/products/Aplus/MB/H12DSi-NT6_spec.jpg).

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List \(/en/support/resources/m2ssd?ProductID=87726&ProductName=H12DSi-NT6\)](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility \(/Aplus/support/resources/OS/OS_Comp_H12_EPYC7002_7003-DP-1.cfm\)](#)

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 10GBase-T 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-NT6
H12DSi-NT6

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 BCM57416 10GBase-T Ethernet Controller

VGA
ASPEED AST2600 BMC

Input / Output

SATA
10 SATA3 (6 Gbps) ports

LAN
2x 10GBase-T 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-NT6)

2U
[SCLA25TQC-R609LP \(/products/chassis/2U/LA25/SCLA25TQC-R609LP\)](#).

3U
[SCLA26AC12-R920LP1 \(/products/chassis/2U/LA26/SCLA26AC12-R920LP1\)](#).

3U
[SC835TQC-R1K03B \(/products/chassis/3U/835/SC835TQC-R1K03B\)](#).

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 \(/en/solutions/management-software/superdoctor\)](#).
Watch Dog
NMI
[SUM \(/en/solutions/management-software/supermicro-update-manager\)](#).
[IPMI 2.0 \(/en/solutions/management-software/ipmi-utilities\)](#), 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

Certain products may not be available in your region