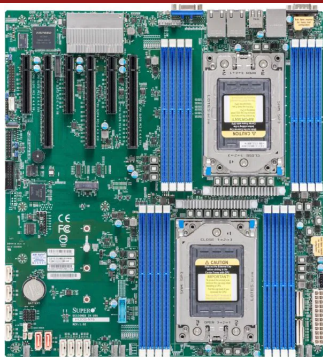


H12DSi-NT6



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. 8x4-pin PWM Fans & 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.

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
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

Specifications

Chassis (Optimized for H12DSi-NT6)

2U
[SCLA25TQC-R609LP](#)
[SCLA26AC12-R920LP1](#)
3U
[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](#)
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 8x4-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)