

# AS-4023S



## Key Features

- GPU Accelerated Compute
- Cloud Computing
- Data Center
- General purpose, SMB, Web Hosting

1. Dual AMD EPYC 7000-Series Processors; System on Chip (SoC)
2. Up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs
3. Expansion slots:
  - 2 PCI-E x16 slots
  - 3 PCI-E x8 slots
5. Integrated IPMI 2.0 + KVM with dedicated LAN
6. Dual 10G LAN ports
7. 8 hot-swap 3.5" SAS3/SATA3 drive bays;
  - 2 peripheral 5.25" drive bays;
  - 1 M.2 NVMe SSD supported
8. 1280W Redundant (1+1) Power Supplies **Platinum Level**

## Specifications

### Motherboard

H11DSi-NT

### Processor/Chipset

- CPU**
- Dual AMD EPYC™ 7000-series Processors
  - Socket SP3

- Chipset**
- System on Chip (SoC)

### System Memory

- Memory Capacity**
- 16 DIMM sockets
  - Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs
  - 8-channel memory bus

- Memory Type**
- DDR4 2666 MHz Registered ECC, 240-pin gold-plated DIMMs

- DIMM Sizes**
- 8GB, 16GB, 32GB, 64GB, 128GB

- Memory Voltage**
- 1.2V

- Error Detection**
- Corrects single-bit errors
  - Detects double-bit errors (using ECC memory)

### On-Board Devices

- SATA**
- SATA3 (6 Gbps)

### Dimensions

- Height**
- 17.8" (452mm)

- Width**
- 7" (178mm)

- Depth**
- 25.5" (647mm)

### Front Panel

- Buttons**
- Power On/Off button
  - System Reset button

- LEDs**
- Power LED
  - Hard drive activity LED
  - 2x Network activity LEDs
  - System Overheat LED / Fan fail LED / UID LED

### Drive Bays

- Hot-swap**
- 8 hot-swap 3.5" Drive Bays:
    - 8 SATA3 by default
    - or 8 SAS3

### Peripheral Drives

- 5.25"**
- 3 peripheral 5.25" drive bays

### Backplane

- HDD Backplane**
- Supports 8 SATA3 or 8 SAS3 HDD

<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2500 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>2 Intel® X550 10GBase-T Ethernet Controllers</li> <li>1 Realtek RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Expansion Slots</b>	
<b>Tower/4U</b>	<ul style="list-style-type: none"> <li>2 PCI-E x16 slots</li> <li>3 PCI-E x8 slots</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>10 SATA3 (6 Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>Dual 10G LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2 USB 3.0 ports (rear)</li> <li>4 USB 2.0 ports (2 rear + 2 via header)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>8 SAS3 ports support via optional Add-on Card</li> </ul>
<b>NVMe</b>	<ul style="list-style-type: none"> <li>2 NVMe support with optional cables</li> </ul>
<b>Keyboard / Mouse</b>	<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1 COM port (rear)</li> <li>2 SATA DOM power connector</li> <li>TPM 1.2 header</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>AMI 128Mb SPI Flash EEPROM</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>PCI 2.2</li> <li>ACPI 5.1</li> <li>USB Keyboard Support</li> <li>SMBIOS 3.1.1</li> </ul>

## System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>2 2800 RPM fans</li> <li>1 2700 RPM fan</li> </ul>
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## Power Supply

1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2

<b>AC Input</b>	<ul style="list-style-type: none"> <li>1000W Output @ 100-140V, 8-12A, 50-60Hz</li> <li>1280W Output @ 180-240V, 6-8A, 50-60Hz</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>1000W: +12V/83A; +5Vsb/4A</li> <li>1280W: +12V/106.7A, +5Vsb/4A</li> </ul>

## Certification



Platinum Certified

## PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT</li> <li>CPU switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Up to 8-fan status tachometer monitoring</li> <li>Up to eight 4-pin fan headers</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>Thermal control for 8x Fan connectors</li> <li>I<sup>2</sup>C Temperature Sensing Logic</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis Intrusion Detection</li> <li>Chassis Intrusion Header</li> </ul>

## Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>