

AS-1023US



Key Features

- **Virtualization**
- **Cloud Computing**
- **High End Enterprise Server**
- **Flexible Networking Options**

1. Dual AMD EPYC 7000-Series Processors; System on Chip (SoC)
2. Up to 4TB Registered ECC DDR4 2666MHz SDRAM in 32 DIMMs
3. Expansion slots:
 - 2 PCI-E x16 (FH/HL 9.5") slots
 - 2 PCI-E x8 slots (1LP, 1 internal LP)
5. Integrated IPMI 2.0 + KVM with dedicated LAN
6. Quad Gigabit LAN ports via Intel i350AM4
7. Drive Bays:
 - 4 hot-swap 3.5" SATA3 by default or 4 NVMe (optional supported) or 4 SAS3 ports (SAS Add-on card is optional)
8. 1000W Redundant (1+1) Power Supplies **Titanium Level (96%+)**

Specifications

Motherboard

H11DSU-iN

Processor/Chipset

- | | |
|----------------|---|
| CPU | <ul style="list-style-type: none"> ■ Dual AMD EPYC™ 7000-series Processors ■ Socket SP3 |
| Chipset | <ul style="list-style-type: none"> ■ System on Chip (SoC) |

System Memory

- | | |
|------------------------|---|
| Memory Capacity | <ul style="list-style-type: none"> ■ 32 DIMM sockets ■ Supports up to 4TB Registered ECC DDR4 2666MHz SDRAM in 32 DIMMs ■ 8-channel memory bus |
| Memory Type | <ul style="list-style-type: none"> ■ DDR4 2666 MHz Registered ECC, 240-pin gold-plated DIMMs |
| DIMM Sizes | <ul style="list-style-type: none"> ■ 4GB, 8GB, 16GB, 32GB, 64GB, 128GB |
| Memory Voltage | <ul style="list-style-type: none"> ■ 1.2V |
| Error Detection | <ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory) |

On-Board Devices

VGA ASPEED AST2500 BMC

Dimensions

- | | |
|---------------|--|
| Height | ■ 1.7" (43mm) |
| Width | ■ 17.2" (437mm) |
| Depth | ■ 29" (737mm) |
| Weight | <ul style="list-style-type: none"> ■ Net Weight: 26 lbs (11.8 kg) ■ Gross Weight: 41 lbs (18.6 kg) |

Front Panel

- | | |
|----------------|--|
| Buttons | <ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button |
| LEDs | <ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED / Fan fail LED / UID LED |

Drive Bays

- | | |
|-----------------|--------------------------------------|
| Hot-swap | ■ Four 3.5" Hot-swap SATA drive bays |
|-----------------|--------------------------------------|

Backplane

- | | |
|----------------------|--|
| HDD Backplane | ■ Supports 4 SATA3 or 4 NVMe or 4 SAS3 HDD |
|----------------------|--|

System Cooling

- | | |
|-------------------|--|
| Fans | 8 heavy-duty PWM fans with optimal fan speed control |
| Air Shroud | 2 Air Shroud |

Expansion Slots

- 2 PCI-E x16 (FH/HL 9.5") slots
- 2 PCI-E x8 (LP) slot (1 LP, 1 internal LP)

1U

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers.

Input / Output

SATA	■ 4 SATA3 (6 Gbps) ports
LAN	■ Quad Gigabit LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 3 USB 3.0 ports (2 rear + 1 Type A)
VGA	■ 1 VGA port
SAS	■ 4 SAS3 ports support via optional Add-on Card
NVMe	■ 4 NVMe support with optional cables
Others	■ 1 COM port (rear) ■ 2 SATA DOM power connector ■ TPM 1.2 header

System BIOS

BIOS Type	■ AMI 128Mb SPI Flash EEPROM
BIOS Features	■ Plug and Play (PnP) ■ DMI 2.3 ■ PCI 2.2 ■ ACPI 5.1 ■ USB Keyboard Support ■ SMBIOS 3.1.1

Power Supply

1000W Redundant Power Supplies with PMBus

Total Output Power	■ 800W/1000W
Dimension (W x H x L)	■ 73.5 x 40 x 203 mm
Input	■ 100-127Vac / 9.8 - 7A / 50-60Hz ■ 200-240Vac / 7 - 5A / 50-60Hz
+12V	■ Max: 66.7A / Min: 0A (100-127Vac) ■ Max: 83A / Min: 0A (200-240Vac)
12Vsb	■ Max: 2.1A / Min: 0A
Output Type	■ 25 Pairs Gold Finger Connector

Certification



UL/cUL/CB/BSMI/CE/CCC
Titanium Level

PC Health Monitoring

CPU	■ Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT ■ CPU switching voltage regulator
FAN	■ Up to 8-fan status tachometer monitoring ■ Up to eight 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 ■ I ² C Temperature Sensing Logic
LED	■ CPU / System Overheat LED
Other Features	■ Chassis Intrusion Detection ■ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	■ RoHS Compliant
Environmental Spec.	■ 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)