

AS-2023US



Key Features

- **Virtualization**
- **Hyperconverge Storage**
- **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:
 - 1 PCI-E 3.0 x16 slot (FH, 10.5" L)
 - 5 PCI-E 3.0 x8 slots (FH, 9.5" L)
 - 1 PCI-E 3.0 x8 slot (LP)
 - 1 PCI-E 3.0 x8 (internal LP)
5. Integrated IPMI 2.0 + KVM with dedicated LAN
6. Quad Gigabit LAN ports via Intel i350AM4
7. 12 hot-swap 3.5" Drive Bays:
 - 12 SATA3 by default
 - or 8 SATA3 + NVMe (optional supported)
 - or 12 SAS3 (SAS Add-on card is optional)
8. 1600W Redundant (1+1) Power Supplies **Titanium Level (96%+)**

Specifications

Motherboard

H11DSU-iN

Processor/Chipset

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

- Chipset**
- System on Chip (SoC)

System Memory

- Memory Capacity**
- 32 DIMM sockets
 - Supports up to 4TB Registered ECC DDR4 2666MHz SDRAM in 32 DIMMs
 - 8-channel memory bus

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

- DIMM Sizes**
- 4GB, 8GB, 16GB, 32GB, 64GB, 128GB

- Memory Voltage**
- 1.2V

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

Dimensions

- Height** ■ 3.5" (89mm)
- Width** ■ 17.2" (437mm)
- Depth** ■ 28.46" (723mm)
- Weight**
- Net Weight: 36 lbs (16.4 kg)
 - Gross Weight: 72 lbs (32.7 kg)

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

- 12 hot-swap 3.5" Drive Bays:
12 SATA3 by default
Optional Drive Support:
8 SAS3 + 4 SAS3/NVMe
2 rear hot-swap 2.5" drive bays

Hot-swap

On-Board Devices

SATA	<ul style="list-style-type: none">■ SATA3 (6 Gbps)
IPMI	<ul style="list-style-type: none">■ Support for Intelligent Platform Management Interface v.2.0■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support■ ASPEED AST2500 BMC
Network Controllers	<ul style="list-style-type: none">■ Provided via Ultra Riser Card
VGA	<ul style="list-style-type: none">■ ASPEED AST2500 BMC

Expansion Slots

2U	<ul style="list-style-type: none">■ 1 PCI-E 3.0 x16 slot (FH, 10.5" L)■ 5 PCI-E 3.0 x8 slots (FH, 9.5" L)■ 1 PCI-E 3.0 x8 slot (LP)■ 1 PCI-E 3.0 x8 (internal LP) <p>(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers.)</p>
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Input / Output

SATA	<ul style="list-style-type: none">■ 12 SATA3 (6 Gbps) ports
LAN	<ul style="list-style-type: none">■ Quad Gigabit LAN ports■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">■ 3 USB 3.0 ports (2 rear + 1 Type A)
VGA	<ul style="list-style-type: none">■ 1 VGA port
SAS	<ul style="list-style-type: none">■ 12 SAS3 ports support via optional Add-on Card
NVMe	<ul style="list-style-type: none">■ 4 NVMe support with optional cables
Others	<ul style="list-style-type: none">■ 1 COM port (rear)■ 2 SATA DOM power connector■ TPM 1.2 header

System BIOS

BIOS Type	<ul style="list-style-type: none">■ AMI 128Mb SPI Flash EEPROM
BIOS Features	<ul style="list-style-type: none">■ Plug and Play (PnP)■ DMI 2.3■ PCI 2.2■ ACPI 5.1■ USB Keyboard Support■ SMBIOS 3.1.1

Backplane

HDD Backplane	<ul style="list-style-type: none">■ Supports 12 SATA3 or 8 SATA3 + 4 NVMe or 12 SAS3 HDD
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System Cooling

Fans	<ul style="list-style-type: none">■ 4 heavy-duty PWM fans with optimal fan speed control
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Power Supply

1600W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none">■ 1000W/1600W
Dimension (W x H x L)	<ul style="list-style-type: none">■ 73.5 x 40 x 203 mm
Input	<ul style="list-style-type: none">■ 100-127Vac / 13 - 9A / 50-60Hz■ 200-240Vac / 10 - 8A / 50-60Hz
+12V	<ul style="list-style-type: none">■ Max: 83.3A / Min: 0A (100-127Vac)■ Max: 133A / Min: 0A (200-240Vac)
12Vsb	<ul style="list-style-type: none">■ Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none">■ 25 Pairs Gold Finger Connector

Certification	  UL/cUL/CB/BSMI/CE/CCC Titanium Level
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PC Health Monitoring

CPU	<ul style="list-style-type: none">■ Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT■ CPU switching voltage regulator
FAN	<ul style="list-style-type: none">■ 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	<ul style="list-style-type: none">■ Monitoring for CPU and chassis environment■ CPU Thermal Trip Support■ Thermal control for 8x Fan connectors■ I²C Temperature Sensing Logic
LED	<ul style="list-style-type: none">■ CPU / System Overheat LED
Other Features	<ul style="list-style-type: none">■ Chassis Intrusion Detection■ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none">■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none">■ 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)