A+ Server 2123US-TN24R25M (Complete System Only)

Integrated Board

(/Aplus/motherboard/EPYC7000/H11DSU-iN.cfm)

H11DSU-iN (/Aplus/motherboard/EPYC7000/H11DSU-iN.cfm)

Views: | **Angled View (/a_images/products/views/2123US-TN24R25M_angle.jpg)** | **Top View (/a_images/products/views/2123US-TN24R25M_top.jpg)** | | **Front View (/a_images/products/views/2123US-TN24R25M_front.jpg)** | **Rear View (/a_images/products/views/2123US-TN24R25M_rear.jpg)** |

Key Features

- **Virtualization**
- **Cloud Computing**
- **High-End Enterprise Server**
- **Hyperconverged Storage**

1. Dual AMD EPYC™ 7001/7002* Series Processors (*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 4TB Registered ECC DDR4 2666MHz SDRAM in 32 DIMMs (7001 Processors)
   8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs (Board revision 2.x required + 7002 Processors)
3. Integrated IPMI 2.0 + KVM with dedicated LAN
   - **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
4. Dual 25G SFP28 LAN ports
5. Drive Bays:
   24 hot-swap 2.5" U.2 NVMe drive bays
6. 1600W Redundant Power Supplies
   Titanium Level (96%)
   (Full redundancy based on configuration and application load)

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (for optimal performance 16 DIMMs & at least 24/32 cores per CPU is recommended). Minimum requirement is 2 CPUs, 4 DIMMs, 1 NVMe HDD drive.

Drivers & Utilities **BIOS** **IPMI** **Tested Memory** **NVMe Options** **Tested AOC**

Manuals

OS Certification Matrix (/en/support/resources/certification/AS-2123US-TN24R25M)

Quick-References Guide **Drive Options**

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

AS -2123US-TN24R25M
A+ Server 2123US-TN24R25M

Motherboard

H11DSU-iN (/Aplus/motherboard/EPYC7000/H11DSU-iN.cfm)

Processor/Chipset

CPU
Dual AMD EPYC™ 7001/7002* series Processors
(* Board revision 2.x required)
Socket SP3
Supports CPU cTDP up to 280W**
Cores
Up to 32 Cores (Board revision 1.x + 7001 Processors)
Up to 64 Cores (Board revision 2.x + 7002 Processors)
Chipset
System on Chip (SoC)
Note
** Certain CPUs with high TDP higher than 225W may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization

System Memory

Memory Capacity
32 DIMM slots
Supports up to 4TB Registered ECC DDR4 2666MHz SDRAM (7001 Processors)
Supports up to 8TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required + 7002 Processors)
8-channel memory bus
Memory Type
DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs (7001 Processors)
DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required + 7002 Processors)
DIMM Sizes
4GB, 8GB, 16GB, 32GB, 64GB, 128GB, 256GB*
(* Board revision 2.x required + 7002 Processors)
Memory Voltage
1.2V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices

IPMI
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 Connectivity
Dual 25GbE SFP28 ports via AOC-2UR68-M2TS-O (Mellanox ConnectX-4 Lx EN)
VGA
ASPEED AST2500 BMC

Expansion Slots

2U
No expansion slot available.*

Input / Output

Chassis

Form Factor
2U
Model
CSE-219U2TS-R1K62P

Dimensions and Weight

Height
3.5" (89mm)
Width
17.2" (437mm)
Depth
28.46" (723mm)
Package
9.96" (H) 24.60" (W) 45.43" (D)
Weight
Net Weight: 39 lbs (17.7 kg)
Gross Weight: 63 lbs (28.6 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

Hot-swap
24 hot-swap 2.5" U.2 NVMe drive bays

System Cooling

Fans
4 heavy-duty PWM fans with optimal fan speed control
Air Shroud
1 Air Shroud

Power Supply

1600W Redundant Power Supplies with PMBus
Total Output Power
1600W/1000W
Dimension (W x H x L)
73.5 x 40 x 203 mm
Input
100-127Vac / 13 - 9A / 50-60Hz
200-240Vac / 10 - 8A / 50-60Hz
+12V
Max: 83.3A / Min: 0A (100-127Vac)
Max: 133A / Min: 0A (200-240Vac)
12Vsb
Max: 2.1A / Min: 0A
Output Type
25 Pairs Gold Finger Connector

NVMe
24 U.2 NVMe support
LAN
Dual 25G SFP28 LAN ports
1 RJ45 Dedicated IPMI LAN port
USB
3 USB 3.0 ports (2 rear + 1 Type A)
VGA
2 VGA ports (1 rear, 1 onboard)
Others
1 COM port
2 SATA DOM power connectors
TPM 2.0 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

* Please refer to the system manual for more information.

Certification
(http://www.plugloadsolutions.com/80PlusPowerSuppliesDetail id=69&type=2) **Titanium Level**
[**Test Report (/products/powersupply/80PLUS/80PLUS_PWS-11R.pdf)**]

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 4-fan status tachometer monitoring
Up to four 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 4x Fan connectors
I^2C 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:

Parts List

Certain products may not be available in your region