

A+ Server 2124BT-HTR (Complete System Only)



Integrated Board



[\(/Aplus/motherboard/EPYC7000/H12DST-B.cfm\)](#)

Super H12DST-B [\(/Aplus/motherboard/EPYC7000/H12DST-B.cfm\)](#)

Views: [Angled View \(/a_images/products/views/2124BT-HTR_angle.jpg\)](#) |

[Node View \(/a_images/products/views/2124BT-HTR_node.jpg\)](#) |

[Front View \(/a_images/products/views/2124BT-HTR_front.jpg\)](#) | [Rear View](#)

[\(/a_images/products/views/2124BT-HTR_rear.jpg\)](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum 2 CPUs, 8 DIMMs, 1 HDD and 1 SIOM card per node).

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#)

[Tested M.2 List \(/en/support/resources/m2ssd?SystemID=86916&ProductName=AS2124BT-HTR\)](#)

[Tested AOC](#) [Manuals](#)

[OS Certification Matrix \(/en/support/resources/certification/AS-2124BT-HTR\)](#)

[Quick-References Guide](#) [Drive Options](#)

Key Features

- Compute Intensive Applications
- HPC, Data Center, Enterprise Server
- Hyperscale / Hyperconverged

Four hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual AMD EPYC™ 7003/7002 Series Processors (7003 Series Processor drop-in support requires BIOS version 2.0 or newer)
2. Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots
3. 2 PCI-E 4.0 x16 (LP) slot; 1 [SIOM \(/en/support/resources/aoc/siom\)](#) card support (flexible networking)
Note: must bundle with Network card
4. Integrated IPMI 2.0 + KVM with dedicated LAN
 - **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
5. 6 Hot-swap 2.5" SATA3 drive bays
M.2 Interface: 1 SATA/PCI-E 3.0 x4
M.2 Form Factor: 2280, 22110
M.2 Key: M-key
6. Video via Aspeed AST2500 BMC
7. 2200W Redundant Power Supplies
Titanium Level (96%)
(Full redundancy based on configuration and application load)

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

Specifications

Product SKUs

AS -2124BT-HTR

A+ Server 2124BT-HTR (Black)

Motherboard (per Node)

Super H12DST-B

([/Aplus/motherboard/EPYC7000/H12DST-B.cfm](https://aplus.com/motherboard/EPYC7000/H12DST-B.cfm))

Processor/Chipset (per Node)

CPU

Dual AMD EPYC™ 7003/7002 Series Processors
(7003 Series Processor drop-in support requires BIOS version 2.0 or newer)

Socket SP3

Support CPU TDP/cTDP up to 200W*

Cores

Up to 64 Cores

Note

* Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization

System Memory (per Node)

Memory Capacity

16 DIMM slots

Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs

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

Memory 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 (per Node)

Chipset

System on Chip

Storage

SATA3 (6Gbps) via AMD EPYC

Network

1 PCI-E 4.0 x16 SIOM LAN Networking Slot for flexible networking, see [SIOM \(/en/support/resources/aoc/siom\)](https://aplus.com/support/resources/aoc/siom). LAN options support matrix (Must bundle with at least one SIOM network card)

IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Video

ASPEED AST2500 BMC

Input / Output (per Node)

LAN

Provided via SIOM (optional)

1 RJ45 Dedicated IPMI LAN port

USB

2 USB 3.0 ports (rear)

Chassis

Form Factor

2U Rackmount

Model

CSE-217BHQ+-R2K22BP2

Dimensions and Weight

Width

17.68" (449mm)

Height

3.47" (88mm)

Depth

28.75" (730mm)

Package

24.33" (618mm) H x 9.57" (243mm) W x 45.08" (1145mm) D

Weight

Gross Weight: 85 lbs (38.6 kg)

Net Weight: 54.5 lbs (24.7 kg)

Available Colors

Black

Front Panel (per Node)

Buttons

Power On/Off button

UID button

LEDs

Power status LED

HDD activity LED

Network activity LEDs

Universal Information (UID) LED

Expansion Slots (per Node)

PCI-Express

2 PCI-E 4.0 (x16) Low-profile slots

1 [SIOM \(/en/support/resources/aoc/siom\)](https://aplus.com/support/resources/aoc/siom) card support (must bundle with network card)

M.2

Interface: 1 SATA/PCI-E 3.0 x4

Form Factor: 2280, 22110

Key: M-key

Drive Bays (per Node)

Hot-swap

6 Hot-swap 2.5" SATA3 drive bays

System Cooling

Fans

4 Heavy duty 8cm PWM fans

Power Supply

2200W Redundant Power Supplies with PMBus

Total Output Power

1200W/1800W/1980W/2090/2200W

Dimension

(W x H x L)

45 x 40 x 480 mm

Video

1 VGA port

DOM1 SuperDOM ([/SATADOM/](#)), (Disk on Module) port**Others**

1 COM port (header)

1 TPM 2.0 header

System BIOS (per Node)**BIOS Type**

AMI 32Mb SPI Flash ROM

Management (per Node)**Software**[IPMI 2.0 \(/solutions/IPMI.cfm\)](#)

KVM with dedicated LAN

[SSM \(/solutions/SMS_SSM.cfm\)](#), [SUM](#)[\(/solutions/SMS_SUM.cfm\)](#)[SuperDoctor® 5 \(/solutions/SMS_SD5.cfm\)](#)

Watch Dog

Power Configurations

ACPI / APM Power Management

Input

1200W: 100-127Vac / 50-60Hz

1800W: 200-220Vac / 50-60Hz

1980W: 220-230Vac / 50-60Hz

2090W: 230-240Vac / 50-60Hz

2090W: 180-220Vac (for UL/cUL only)

2200W: 220-240Vac (for UL/cUL only)

2090W: 230-240Vdc (for CCC only)

+12V

Max: 100A / Min: 0A (100-127Vac)

Max: 150A / Min: 0A (200-220Vac)

Max: 165A / Min: 0A (220-230Vac)

Max: 174.17A / Min: 0A (230-240Vac)

Max: 174.17A / Min: 0A (180-220Vac, UL/cUL only)

Max: 183.33A / Min: 0A (220-240Vac, UL/cUL only)

Max: 174.17A / Min: 0A (230-240Vdc, CCC only)

12Vsb

Max: 2.1A / Min: 0A

Output Type

Gold Finger

Certification<http://www.plugloadsolutions.com/80PlusPowerSupplies>

id=69&type=2), Titanium Level

[\[Test Report](#)[\(/products/powersupply/80PLUS/80PLUS_F](#)[1R.pdf\)](#)]**Operating Environment****RoHS**

RoHS Compliant

Environmental Spec.

Operating Temperature:

10°C ~ 30°C (50°F ~ 86°F)

* Support for operating above 30°C is available in certain system configur
Contact your Supermicro sales rep or Technical Support for more details.

Non-operating Temperature:

-40°C to 60°C (-40°F to 140°F)

Operating Relative Humidity:

8% to 90% (non-condensing)

Non-operating Relative Humidity:

Parts List[Global SKU \(/en/products/SMC_global_skus\)](#)