

## A+ Server 2124BT-HNTR (Complete System Only)



**Integrated Board**



[./en/products/motherboard/H12DST-B](/en/products/motherboard/H12DST-B)

**Super H12DST-B** [./en/products/motherboard/H12DST-B](/en/products/motherboard/H12DST-B)

**Views:** [Angled View](/a_images/products/views/2124BT-HNTR_angle.jpg) [Node View](/a_images/products/views/2124BT-HNTR_node.jpg) [Front View](/a_images/products/views/2124BT-HNTR_front.jpg) [Rear View](/a_images/products/views/2124BT-HNTR_rear.jpg)

## 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" drive bays (4 NVMe [Gen3] + 2 SATA3, or 6 SATA3)
  - M.2 Interface:** 1 SATA/PCI-E 3.0 x4 and 1 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)

**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=86964&ProductName=AS2124BT-HNTR)

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

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

[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

### AS -2124BT-HNTR

A+ Server 2124BT-HNTR (Black)

## Motherboard (per Node)

**[Super H12DST-B](/en/products/motherboard/H12DST-B)** (</en/products/motherboard/H12DST-B>).

## 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 225W\*

### 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

NVMe

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) (</en/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+-R2K22BP

## 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) (</en/support/resources/aoc/siom>), card support (must bundle with network card)

### M.2

Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4

Form Factor: 2280, 22110

Key: M-key

## Drive Bays (per Node)

### Hot-swap

4 Hot-swap 2.5" NVMe (Gen3)/SATA3 + 2 Hot-swap 2.5" SATA3 drive bays

Note: NVMe Gen4 drives may only operate at Gen3 speed

## 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

**DOM**1 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 \(/en/products/SMC\\_global\\_skus\)](#)