

# BigTwin A+ Server AS -2124BT-HNTR

2U BigTwin with 6 2.5" SATA drives (up to 4 NVMe) per node

## Key Applications

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

## Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Dual AMD EPYC™ 7003/7002 Series Processors  
(7003 Series Processor drop-in support requires BIOS version 2.0 or newer);
- Up to 4TB ECC 3DS LRDIMM,  
up to DDR4-3200MHz; 16 DIMM slots;
- 1 SIOM card support  
(flexible networking)  
Note: must bundle with Network card;
- 6 Hot-swap 2.5" drive bays  
(4 NVMe [Gen3] + 2 SATA3, or 6 SATA3)  
M.2 Interface: 1 PCIe3.0 x4 NVMe/SATA and 1 PCIe 3.0 x4  
M.2 Form Factor: 2280, 22110  
M.2 Key: M-key;



### Form Factor

2U Rackmount  
Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75")  
Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

### Processor

Dual Socket SP3  
AMD EPYC™ 7002/7003 Series Processors

### System Memory

Slot Count: 32 DIMM slots/8 Channels  
Max Memory (1DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM

### Drive Bays Configuration

Default: Total 6 bays

- 4 front hot-swap 2.5" NVMe drive bays
- 2 front hot-swap 2.5" SATA drive bays

Option A: Total 6 bays

- 6 front hot-swap 2.5" SATA drive bays

### Expansion Slots

PCI-Express (PCIe) Configuration: Default

- 2 PCIe 4.0 x16 LP slots

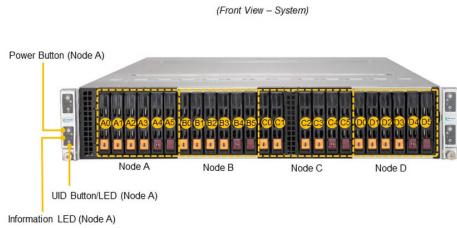
M.2: 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280/22110)

### On-Board Devices

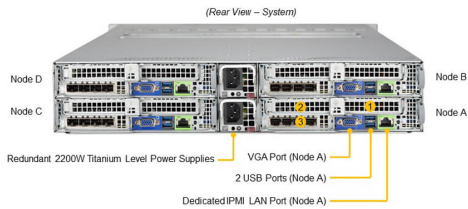
Network Connectivity: Ethernet  
InfiniBand  
IPMI: Support for Intelligent Platform Management Interface v.2.0  
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

### Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
USB: 2 USB 3.0 ports(rear)  
Video: 1 VGA port  
DOM: 1 SuperDOM (Disk on Module) port  
TPM: 1 TPM header



| Drive Bay (A/B/C/D) | Description                         |
|---------------------|-------------------------------------|
| 0 - 3               | 2.5" Hot-Swap NVMe/SATA3 Drive Bays |
| 4 - 7               | 2.5" Hot-Swap SATA3 Drive Bays      |



| Slot | Description                           |
|------|---------------------------------------|
| 1    | PCI-E 4.0 x16 LP Slot (CPU1) (Node A) |
| 2    | PCI-E 4.0 x16 LP Slot (CPU1) (Node A) |
| 3    | SIOM* Slot (CPU1) (Node A)            |

\*SIOM card sold separately.

|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 4 Heavy-duty PWM 8cm Fan(s)                                                                                                                                                                                                                     |
| Power Supply          | 2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies                                                                                                                                                                                              |
| System BIOS           | BIOS Type: AMI 32MB SPI FLASH ROM                                                                                                                                                                                                                           |
| Management            | Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; IPMI 2.0; Watch Dog                                                                                                             |
| Dimensions and Weight | Weight: Gross Weight: 96.6 lbs (43.8 kg)<br>Net Weight: 66.1 lbs (30 kg)<br>Available Color: Black front & silver body                                                                                                                                      |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 30°C (50°F to 86°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard           | <a href="#">Super H12DST-B</a>                                                                                                                                                                                                                              |
| Chassis               | CSE-217BHQ+-R2K22BP2                                                                                                                                                                                                                                        |