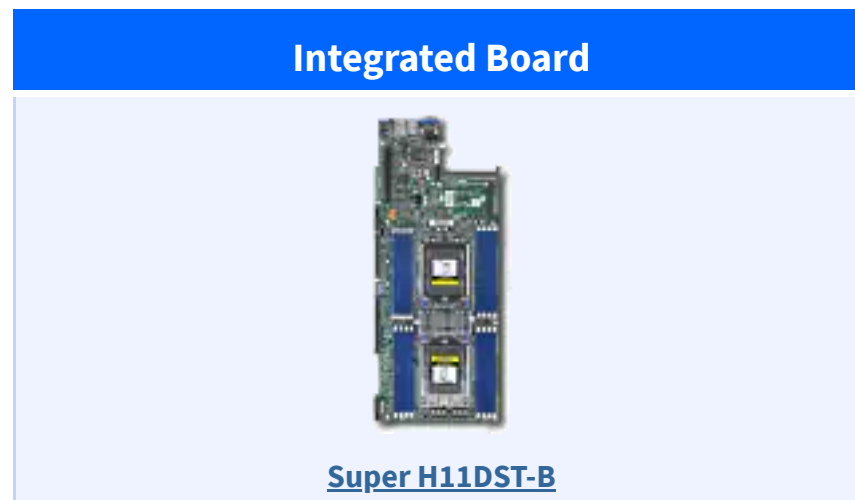


## A+ Server 2123BT-HTR(Complete System Only)



Views: | [Angled View](#) | [Node View](#) | [Front View](#) | [Rear View](#) |

**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/NVMe and 1 SIOM card per node).

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Tested M.2 List](#) [Tested AOC](#) [Manuals](#) [OS Certification Matrix](#) [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.

### Key Features

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

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

- Dual AMD EPYC™ 7001/7002\* Series Processors (\*AMD EPYC 7002 series drop-in support requires board revision 2.x)
- 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs (7001 Processors)  
4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs (Board revision 2.x required + 7002 Processors)
- 2 PCI-E 3.0 x16 (LP) slot; 1 [SIOM](#) card support (flexible networking)  
Note: must bundle with Network card
- Integrated IPMI 2.0 + KVM with dedicated LAN
  - Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management
- 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
- Video via Aspeed AST2500 BMC
- 2200W Redundant Power Supplies  
**Titanium Level (96%)**  
*(Full redundancy based on configuration and application load)*



### Specifications ^

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

**AS -2123BT-HTR** A+ Server 2123BT-HTR (Black)

#### Motherboard (per Node)

#### Super H11DST-B

#### Processor/Chipset (per Node)

<b>CPU</b>	Dual AMD EPYC™ 7001/7002* series Processors (* Board revision 2.x required) Socket SP3 Supports CPU TDP 200W / cTDP up to 200W**
<b>Cores</b>	Up to 32 Cores (Board revision 1.x + 7001 Processors) Up to 64 Cores (Board revision 2.x + 7002 Processors)
<b>Note</b>	** 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)

<b>Memory Capacity</b>	16 DIMM slots Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM (7001 Processors) Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required + 7002 Processors) 8-channel memory bus For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks
<b>Memory Type</b>	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)
<b>Memory Sizes</b>	8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (* Board revision 2.x required + 7002 processors)
<b>Memory Voltage</b>	1.2V
<b>Error Detection</b>	Corrects single-bit errors Detects double-bit errors (using ECC memory)

#### On-Board Devices (per Node)

<b>Chipset</b>	System on Chip
<b>Storage</b>	SATA3 (6Gbps) via AMD EPYC
<b>Network</b>	1 PCI-E 3.0 x16 SIOM LAN Networking Slot for flexible networking, see <a href="#">SIOM</a> LAN options support matrix (Must bundle with at least one SIOM network card)
<b>IPMI</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Video</b>	ASPEED AST2500 BMC

#### Input / Output (per Node)

<b>LAN</b>	Provided via SIOM (optional) 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	2 USB 3.0 ports (rear)
<b>Video</b>	1 VGA port
<b>DOM</b>	1 SuperDOM (Disk on Module) port
<b>Others</b>	1 COM port (header) 1 TPM 2.0 header

#### System BIOS (per Node)

**BIOS Type** AMI 128Mb SPI Flash ROM

#### Management (per Node)

<b>Software</b>	<a href="#">IPMI 2.0</a> KVM with dedicated LAN <a href="#">SSM</a> , <a href="#">SUM</a> <a href="#">SuperDoctor® 5</a> Watch Dog
<b>Power Configurations</b>	ACPI / APM Power Management

#### Chassis

**Form Factor** 2U Rackmount  
**Model** CSE-217BHQ+-R2K22BP2

#### Dimensions and Weight

<b>Width</b>	17.68" (449mm)
<b>Height</b>	3.47" (88mm)
<b>Depth</b>	28.75" (730mm)
<b>Package</b>	24.33" (618mm) H x 9.57" (243mm) W x 45.08" (1145mm) D
<b>Weight</b>	Gross Weight: 85 lbs (38.6 kg) Net Weight: 54.5 lbs (24.7 kg)
<b>Available Colors</b>	Black

#### Front Panel (per Node)

<b>Buttons</b>	Power On/Off button UID button
<b>LEDs</b>	Power status LED HDD activity LED Network activity LEDs Universal Information (UID) LED

#### Expansion Slots (per Node)

<b>PCI-Express</b>	2 PCI-E 3.0 (x16) Low-profile slots 1 <a href="#">SIOM</a> card support (must bundle with network card)
<b>M.2</b>	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

<b>Total Output Power</b>	1200W/1800W/1980W/2090/2200W
<b>Dimension (W x H x L)</b>	45 x 40 x 480 mm
<b>Input</b>	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)
<b>+12V</b>	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)
<b>12Vsb</b>	Max: 2.1A / Min: 0A
<b>Output Type</b>	Gold Finger
<b>Certification</b>	<a href="#">Titanium Level [ Test Report ]</a>

#### Operating Environment

<b>RoHS</b>	RoHS Compliant
<b>Environmental Spec.</b>	Operating Temperature: 10°C ~ 30°C (50°F ~ 86°F) <b>* Support for operating above 30°C is available in certain system configurations. Contact your Supermicro sales rep or Technical Support for more details.</b> 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: 5% to 95% (non-condensing)

### Parts List ^

#### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-H11DST-B	4	Super H11DST-B Motherboard
	CSE-217BHQ+-R2K22BP2	1	2U Chassis
<b>Backplane</b>	BPN-ADP-6SATA3-1UB	4	Support 6 SATA HDD adaptor card for Big Twin
<b>Backplane</b>	BPN-SAS3-217BHQ	1	2U 4-Node 24-Port Backplane Supports 6x2.5" SATA3/SAS3 SSD/HDD per Node
<b>Drive Tray(s)</b>	MCP-220-00141-0B-BULK	24	Black Gen3 hot-swap 2.5 inch HDD tray with lock improved EMI
<b>Parts</b>	MCP-240-21722-0N	1	217B/827B BigTwin type II (Edge card) BPN retention bkt assy
<b>Riser Card</b>	RSC-P-6	4	RSC-P-6 (1U LHS TwinPro RSC with 1 PCI-Ex16),RoHS
<b>Riser Card</b>	RSC-R1UTP-E16R	4	1U RHS TwinPro Riser card with one PCI-E x16 slot
<b>Software</b>	SFT-OOB-LIC	4	License key for enabling OOB BIOS management
<b>Heatsink / Retention</b>	SNK-P0062PM	4	1U Passive Front CPU Heat Sink w/ a 30-mm Wide Middle Air Channel for AMD H11 2U4N Big Twin Series Servers
<b>Heatsink / Retention</b>	SNK-P0062PW	4	1U Proprietary 93-mm Wide Passive Rear CPU Heat Sink for AMD H11 2U4N Big Twin Series Servers
<b>Power Supply</b>	PWS-2K22A-1R	2	1U 2200W Redundant Power Supply Titanium, 45(W) X 40(H) X 48
<b>FAN</b>	FAN-0183L4	4	80x80x38 mm, 16.5K RPM, Non-hot-swappable Middle Cooling Fan for X11 Twin Pro, X10 and X11 Big Twin Series Servers

#### Optional Parts List

	Part Number	Qty	Description
<b>Global Services &amp; Support</b>	<a href="#">QS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)
<b>TPM security module</b>	<a href="#">AOM-TPM-9665V</a>	-	TPM 1.2 module with Infineon 9665, RoHS/REACH,PBF;
	<a href="#">AOM-TPM-9665V</a>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;
<b>SIOM</b>	-	-	Supermicro SIOM solutions <a href="#">[Details]</a>

Global SKU [English](#)

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