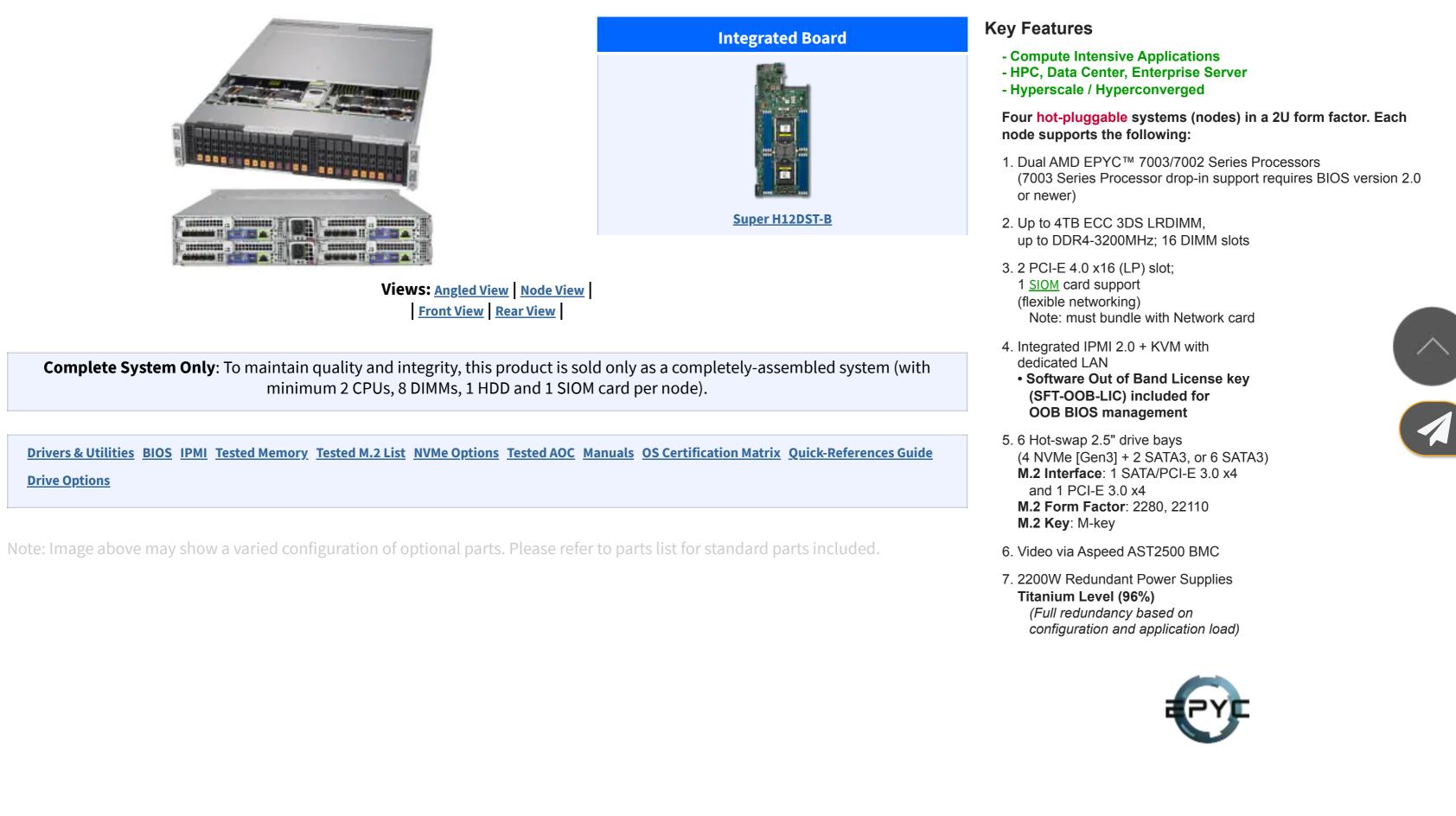


Home » A+ Products » Systems » 2U

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

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## Specifications ^

Product SKUs		Chassis				
	AS -2124BT-HNTR	A+ Server 2124BT-HNTR ( <b>Black</b> )		Form Factor	2U Rackmount	
	Motherboard (per Node)			Model	CSE-217BHQ+-R2K22BP	

Motherboard (per Node)		Model	CSE-217BHQ+-R2K22BP
Super H12DST-B		Dimensions and Weight	
Processor/Chipset (per Node	2)	Width Height	17.68" (449mm) 3.47" (88mm)
CPU	Dual AMD EPYC <sup>™</sup> 7003/7002 Series Processors	Depth	28.75" (730mm)
	(7003 Series Processor drop-in support requires BIOS version	Package	24.33" (618mm) H x 9.57" (243mm) W x 45.08" (1145mm) D
	2.0 or newer) Socket SP3	Weight	Gross Weight: 85 lbs (38.6 kg)
	Support CPU TDP/cTDP up to 225W*		Net Weight: 54.5 lbs (24.7 kg)
Cores	Up to 64 Cores	Available Colors	Black
Note	* Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system	Front Panel (per Node) Buttons	Power On/Off button
	optimization		UID button
System Memory (per Node)		LEDs	Power status LED HDD activity LED Network activity LEDs
Memory Capacity	16 DIMM slots Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM in		Universal Information (UID) LED
	16 DIMMs	Expansion Slots (per Node)	
	8-channel memory bus For Dual CPUs: Recommended that memory be populated		
	equally in adjacent memory banks	PCI-Express	2 PCI-E 4.0 (x16) Low-profile slots 1 <u>SIOM</u> card support
Memory Type	DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs		(must bundle with network card)
Memory Sizes	8GB, 16GB, 32GB, 64GB, 128GB, 256GB	М.2	Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
Memory Voltage	1.2V		Form Factor: 2280, 22110
<b>Error Detection</b>	Corrects single-bit errors		Key: M-key
	Detects double-bit errors (using ECC memory)	Drive Bays (per Node)	
On-Board Devices (per Node	)	Hot-swap	4 Hot-swap 2.5" NVMe (Gen3)/SATA3 + 2 Hot-swap 2.5" SATA3
Chipset	System on Chip		drive bays
Storage	NVMe		Note: NVMe Gen4 drives may only operate at Gen3 speed
	SATA3 (6Gbps) via AMD EPYC	System Cooling	
Network	1 PCI-E 4.0 x16 SIOM LAN Networking Slot for flexible networking, see <u>SIOM</u> LAN options support matrix (Must	Fans	4 Heavy duty 8cm PWM fans
	bundle with at least one SIOM network card)	Power Supply	
IPMI	Support for Intelligent Platform Management Interface v.2.0	2200W Redundant Power Sup	polies with PMBus
	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	Total Output Power	1200W/1800W/1980W/2090/2200W
Video	ASPEED AST2500 BMC	Dimension	45 x 40 x 480 mm
Input / Output (per Node)		(W x H x L)	
		Input	1200W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz
LAN	Provided via SIOM (optional) 1 RJ45 Dedicated IPMI LAN port		1980W: 220-230Vac / 50-60Hz
USB	2 USB 3.0 ports (rear)		2090W: 230-240Vac / 50-60Hz
Video	1 VGA port		2090W: 180-220Vac (for UL/cUL only) 2200W: 220-240Vac (for UL/cUL only)
DOM	1 Super <u>DOM</u> (Disk on Module) port		2090W: 230-240Vdc (for CCC only)
Others	1 COM port (header)	+12V	Max: 100A / Min: 0A (100-127Vac)
	1 TPM 2.0 header		Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac)
System BIOS (per Node)			Max: 174.17A / Min: 0A (230-240Vac)
			Max: 174.17A / Min: 0A (180-220Vac, UL/cUL only)
BIOS Type	AMI 32Mb SPI Flash ROM		Max: 183.33A / Min: 0A (220-240Vac, UL/cUL only) Max: 174.17A / Min: 0A (230-240Vdc, CCC only)
Management (per Node)		12Vsb	Max: 2.1A / Min: 0A
Software	<u>IPMI 2.0</u>	Output Type	Gold Finger
	KVM with dedicated LAN	Certification	🕅 🦳 Titanium Level
	<u>SSM, SUM</u> <u>SuperDoctor® 5</u>		[ Test Report ]
	Watch Dog	<b>Operating Environment</b>	
<b>Power Configurations</b>	ACPI / APM Power Management	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 configurations. 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: 5% to 95% (non-condensing)

Parts List ^

Parts List - (Items Included)

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	Part Number	Qty	Description
Motherboard / Chassis	MBD-H12DST-B	4	Super H12DST-B Motherboard
	CSE-217BHQ+-R2K22BP2	1	2U Chassis
Backplane	BPN-ADP-6SATA3H4-1UB	4	Hybrid BPN to support 4 SATA and/or NVMe in addition to 2 SATA ports,HF,RoHS
Backplane	BPN-SAS3-217BHQ-N4	1	2U 4-Node 24-Port Backplane Supports 2x 2.5" SATA3/SAS3 SSD/HDD and 4x 2.5" SATA3/SAS3/NVMe Stoage Media per Node
Drive Tray(s)	MCP-220-00144-0B-BULK	16	Black Gen3 hot-swap 2.5 inch HDD tray with lock, orange tab
Drive Tray(s)	MCP-220-00141-0B-BULK	8	Black Gen3 hot-swap 2.5 inch HDD tray with lock improved EMI
Parts	MCP-240-21730-0N	1	217B BigTwin type I (Impact) BPN retention bkt w/ foam assy
Riser Card	RSC-P-6-X2	4	1U LHS TwinPro riser card with one PCI-E 4.0 x16 slot,HF,RoH
Riser Card	RSC-PR-6-X2	4	1U RHS TwinPro Riser card with one PCI-E 4.0 x16 slot,HF,RoH
Software	SFT-OOB-LIC	4	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0062P	4	1U Passive CPU Heat Sink for AMD Socket SP3 Processors
Heatsink / Retention	SNK-P0062PW	4	1U Proprietary 93-mm Wide Passive Rear CPU Heat Sink for AMD H11 2U4N Big Twin Series Servers
Power Supply	PWS-2K22A-1R	2	1U 2200W Redundant Power Supply Titanium, 45(W) X 40(H) X 48
FAN	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
Air Shroud	MCP-310-21728-0B	4	SC217B H12 mylar air shroud
Cable	CBL-PWCD-0578-1	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG,RoHS

	Part Number	Qty	Description
Power Supply	PWS-3K04A-1R	-	1U 1400W/2880W/3000W AC/DC PSU with C21 inlet, Titanium, For Bigtwin
Power Supply	PWS-2K60A-1R	-	1U 2600W Redundant Titanium PWS, 45(W) X 40(H) X 480(L)
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u> <u>OSNBD3/2/1</u>	-	3/2/1-year onsite 24x7x4 service 3/2/1-year onsite NBD service
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
TPM security module	<u>AOM-TPM-9655V</u>	-	TPM 1.2 module with Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;
SATADOM	SSD-DM128-SMCMVN1	-	SMC SATADOM, 128GB, SATA 6Gb/s, MLC, uSSD, 15nm,HF,RoHS/REACH
	SSD-DM480-SMCMVN1	-	SMC SATADOM,480GB,SATA 6Gb/s,3D TLC,uSSD,HF,RoHS
	SSD-DM064-SMCMVN1	-	SMC SATADOM,64GB,SATA 6Gb/s,MLC,uSSD,15nm,HF,RoHS
	SSD-DM032-SMCMVN1	-	SMC SATADOM,32GB,SATA 6Gb/s,MLC,uSSD,15nm,HF,RoHS
	MEM-IDSAVS4-032G	-	SATA3DOM SL 3SE4 32GB SLC LP Pin8 VCC NH (L17725)
	MEM-IDSAVM8A-128G	-	SATA3DOM SL 3ME3 V2 128GB MLC LP Pin8 VCC NH (S17411)
	MEM-IDSAVM8A-256G	-	SATA3DOM ML 3ME3 V2 256GB MLC LP Pin8 VCC NH (S17411)
	MEM-IDSAVE1-064G	-	SATA3DOM SL 3IE3 V2 64GB iSLC LP Pin8 VCC NH (S17411i)
	MEM-IDSAVS3-032G	-	SATA3DOM SL 3SE 32GB SLC LP No Pin8 Vcc Support (S130710)
	MEM-IDSAVT1-256G	-	IND SATA3DOM SL 3TE7 256GB 3D TLC Pin8VCC Vertical LP
SIOM	-	-	Supermicro SIOM solutions [Details]

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