

EMC Atmos Hardware Configurations

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EMC® Atmos™ is supported in three hardware configurations: WS2-120, WS2-240, and WS2-360. The WS2-120 and WS2-240 are designed to provide a higher mix of compute resources, while the WS2-360 is optimized to provide the largest amount of storage capacity.

WS2-120



WS2-240



WS2-360



Specifications

	WS2-120 Configuration	WS2-240 Configuration	WS2-360 Configuration
Architecture	- Standard 40U cabinet with one 3U disk enclosure per shelf - Fully accessible and customer-serviceable components - Redundant power, cooling, and cabling	- High-density design with no special environment required 44U rack with Harmonic drawers holding two 3U disk enclosures per shelf - Upgrade servers and disks independently - Simple, integrated cable management - Conventional front-to-back cooling - Fully accessible and customer-serviceable components - Redundant power, cooling, and cabling	
Configuration	Minimum: 4 servers + 4 disk enclosures = 4 Nodes Maximum: 8 servers + 8 disk enclosures = 8 Nodes Node server-to-disk ratio: 1:15	16 servers + 16 disk enclosures = 16 Nodes Node server-to-disk ratio: 1:15	6 servers + 24 disk enclosures = 6 Nodes Node server-to-disk ratio: 1:60
Disk Types	1 TB 7200 RPM 2 TB 5400 RPM low power	1 TB 7200 RPM 2 TB 5400 RPM low power	1 TB 7200 RPM 2 TB 5400 RPM low power
Size	Minimum: 60 x 1 TB disks = 60 TB 60 x 2 TB disks = 120 TB Maximum: 120 x 1 TB disks = 120 TB 120 x 2 TB disks = 240 TB	240 x 1 TB disks = 240 TB 240 x 2 TB disks = 480 TB	360 x 1 TB disks = 360 TB 360 x 2 TB disks = 720 TB
Connectivity	Network: Gigabit Ethernet connectivity between servers and customer's network Disk: SAS wide port (4 lanes) cable connections between servers and disk enclosures		
Protocol Support	TCP/IP		
Dimensions	Height: 70 in/177.8 cm Width: 24 in/60.96 cm Depth: 40 in/101.6 cm Weight: 1,356 lbs Area: 960 sq in/1.67 tiles	Height: 82.44 in/209.4 cm Width: 24 in/60.96 cm Depth: 43 in/109.2 cm Weight: 2,282 lbs Area: 1,032 sq in/1.79 tiles	Height: 82.44 in/209.4 cm Width: 24 in/60.96 cm Depth: 43 in/109.2 cm Weight: 2,548 lbs Area: 1,032 sq in/1.79 tiles
Power Specifications	1 TB 7200 RPM disks: Max Power: 4,480 watts Max Heatload: 16,655 BTU/hr 2 TB 5400 RPM disks: Max Power: 3,945 watts Max Heatload: 13,464 BTU/hr	1 TB 7200 RPM disks: Max Power: 10,020 watts Max Heatload: 34,198 BTU/hr 2 TB 5400 RPM disks: Max Power: 7,890 watts Max Heatload: 26,927 BTU/hr	1 TB 7200 RPM disks: Max Power: 10,290 watts Max Heatload: 35,120 BTU/hr 2 TB 5400 RPM disks: Max Power: 7,239 watts Max Heatload: 24,706 BTU/hr
	Connection: two single phase, L6-30 (redundant power)	Connection: six single phase, L6-30 (redundant power)	Connection: six single phase, L6-30 (redundant power)
	Input Voltage (VAC): 200–240 Circuit Breaker (A) max. per AC power source: 30A/PDU Frequency (Hz): 60 (North America), 50–60 (International)		

	WS2-120 Configuration	WS2-240 Configuration	WS2-360 Configuration
Environmental Specifications	Operating Temperature (°F/°C): 41–90/5–32 Max. Altitude: 7,500 ft/ 2,286 m @ 90°F/32°C Relative Humidity: 20–80% non-condensing Raised Floor: Not required.		
Regulatory and Agency Certifications	The certifications below refer to the individual shelf units that make up the hardware system:  UL and c-UL Listing/ to UL 60950-1 or CSA and us-CSA Certification to CSA 22.2 No. 60950-1 (safety USA and Canada) TUV License to EN 60950-1 (safety-Europe) TUV CB Certificate to IEC 60950-1 (safety-International) FCC Part 15B Class A (US) Industry Canada ICES-003 class A (Canada) CISPR22:1997 3rd Edition Class A (International) EN55022:1998 (Europe) EN55024:1998 (Europe) EN61000-3-2 (Europe) EN61000-3-3 (Europe) VCCI Approval to V3 (Japan) BSMI Approval to CNS13438 (Taiwan) ACA Ctick Approval to AS/NZS CISPR22 (Australia) MIC (Korea) GOST (Russia) IRAM (Argentina)		
Warranty and Support Options	Basic One-Year Warranty and Support: 5x9 remote technical support, customer installation of replacement parts. Optional extended Basic Warranty and Support available Optional Warranty and Support: Enhanced: 7x24 remote technical support, 5x9 onsite with next-business-day response, customer installation of replacement parts Premium: 7x24 remote and onsite technical support with four-hour response, critical escalation management, root-cause analysis, and optional EMC installation of replacement parts		



EMC Corporation
 Hopkinton
 Massachusetts
 01748-9103
 1-508-435-1000
 In North America 1-866-464-7381
www.EMC.com