



DATA SHEET

Flexible. Affordable. Fast.
Exos AP 2U12



Powerful and compact, the Seagate® Exos® AP 2U12 all-in-one, expandable, low-cost storage solution supports growing businesses with high-capacity and high-availability options.



Best-Fit Applications

- Small to mid-sized businesses
- Scalable capacity
- Immediate data access

Key Advantages

Save space and maximize capacity with up to 12 drives that can hold 216TB per chassis in a 2U rackmount enclosure (when using 18TB drives)

Dual x86 controllers with flexible performance options that fit your software requirements and budget, including high availability

Deliver data fast with 7Gb/s reads and 5.5Gb/s writes

Future-proofed to support network infrastructures with 10GbE, 25GbE, and 100GbE I/O options

Expandable with up to 8 total EBOD chassis to grow with your business

Dual 12Gb/s SAS controllers are compliant with latest architecture standards for maximum data throughput

Ensure data is constantly available with hot-swappable controllers, PSUs, system fan modules, drives, and expander cards

Modular solution is easily serviceable and allows for interchangeability with other Exos products



Specifications	
Controller Specifications	
Controller and Quantity	One or two AP-LS-1 controllers, redundancy optional
CPU Type and Quantity Per Controller	One Intel® Xeon® E5 processors v4 family up to 85W TDP
Memory Type and Quantity Per Controller	up to 4 standard-height DDR4-2400 dimm slots
Internal Boot Drive Per Controller	Two M.2 SATA devices
Onboard I/O	Two 10GbE RJ45 ports (Intel X540); two 1GbE RJ45 ports (Intel i350-AM4); one 1GbE RJ45 port (management from BMC)
PCIe Expansion	One low-profile, half-length PCIe gen 3 x16 slot; one Seagate AP-LS-1 custom form-factor PCIe gen 3 x16 slot
Storage Infrastructure	One 12Gb/s SAS controller with optional turbo mode adding second SAS controller
Host/Expansion I/O Ports	Two x4 mini-SAS HD 12G expansion I/O connectors
Inter-Controller Link	x16 PCIe
Chassis Specifications	
Redundant Path	Yes (SAS only)
Management/Status Reporting	Out-of-band CLI via management port and in-band SCSI enclosure services
Device Support	12Gb/s SAS drives and 6Gb/s SATA drives
Max Drives Per Enclosure	up to 12 x 3.5-in LFF or 2.5-in SFF drives (in 3.5-in conversion carrier) (for a full list of supported drives, please contact your account or sales manager)
Hot-Swappable Components	HDDs and SSDs (in chassis data slots), power supply and cooling modules units (PCU), and controllers
Physical	Height: 87.9mm / 3.46 in Width: 443mm / 17.44 in Depth: 630mm / 24.8 in Width (w/ear mounts): 483mm / 19.01 in Weight: 17kg / 38 lb Weight (with drives): 32kg / 71 lb
Power Requirements—AC Input	
Input Power Requirements	100V-240V AC 60Hz/50Hz
Max Power Output per PSU	764W
Environmental/Temperature Ranges	
Operating/Nonoperating Temperature	ASHRAE A2, 5°C to 35°C (41°F to 95°F), derate 1°C/300m above 900m, 20°C/hr max rate of change / -40°C to 70°C (-40°F to 158°F)
Operating/Nonoperating Humidity	-12°C DP minimum, 8% RH to 85% RH, max DP 21°C / 5% to 100% noncondensing
Operating/Nonoperating Shock	5 Gs, 10ms, half sine pulses / 15 Gs, 10ms, half sine pulses
Operating/Nonoperating Vibration	0.21 Gs rms, 5Hz to 500Hz random / 1.04 Gs rms, 2Hz to 200Hz random
Standards/Approvals	
Safety Certifications	UL 60950-1/UL62368-1 ED2 (United States) CAN/CSA-C22.2 No.60950-1-07/No.62368-1-14, 2nd Ed (Canada) EN 60950-1/EN62368-1 (European Union) IEC 60950-1/IEC 62368-1 Ed2 (International) CCC (China PRC – CCC Power Supplies) BIS (India – BIS Power Supplies)
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Emissions (EMC)	FCC CFR 47 Part 15 Subpart B Class A (United States) ICES/NMB-003 Class A (Canada) EN 55032 Class A AS/NZS CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KN 32 Class A CNS 13438 Class A (Taiwan)
Harmonics	EN 61000-3-2 (EU)
Flicker	EN 61000-3-3 (EU)
Immunity	EN 55024 (EU) KN 24/KN 35 (S. Korea) CISPR 24/CISPR35
Environmental Standards	The RoHS Directive (2011/65/EU) The WEEE Directive (2012/19/EU) The REACH Directive (EC/1907/2006) The Batteries Directive (2006/66/EC)
Standard Marks/Approvals	Australia/New Zealand (RCM), Canada (cUL/ICES/NMB-003 Class A), China (CCC – PSU only), European Union (CE), Japan (VCCI), South Korea (KC), Taiwan (BSMI), United States (FCC/UL), The Eurasian Economic Union (EAC), India (BIS)

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