



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.



Key Advantages

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

Dual ×86 controllers with flexible performance options that fit your software requirements and budget, including high availability

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

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

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

Dual 12 Gb/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



Best-Fit Applications

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





Specifications	
Controller Specifications	
Controller and Quantity	One or two AP-BV-1 Controllers, redundancy optional
CPU Type and Quantity Per Controller	AMD SP3 7292P EPYC CPU (8,12,16 Core)
Memory Type and Quantity Per Controller	4 x DDR4 - 3200MHz DIMM slots - 8, 16, 32, 64 GB DIMM support +
Internal Boot Drive Per Controller	Dual NVMe M.2 Board with Single or Dual M.2 NVMe SSD
Onboard I/O	On-board Mellanox CX4 Dual Port 10/25 GbE I/O 2 x 1GbE onboard connections (Management / Data)
PCIE Expansion	One low-profile, half-length PCI Express Gen 4 x16 Host Interface Slot, and one OCP v2.0 Gen 4x8 host interface slot
Storage Infrastructure	On each controller: Gen 4 x8 PCIe Lanes to 12G Broadcom SAS Controller, 12G x4 Mini-SAS HD External Expansion Ports
Inter-Controller Link	PCI Express Gen 3 x16 NTB Inter-controller Interface
Chassis Specifications	
Redundant Path	Yes (SAS only)
Management/Status Reporting	Redfish API + IPMI & SES
Device Support	12 Gb/s SAS drives and 6 Gb/s SATA drives
Max Drives Per Enclosure	up to 12 × 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: 87.9 mm/3.46 in Width: 443 mm/17.44 in Depth: 630 mm/24.8 in Width (w/ear mounts): 483 mm/19.01 in Weight: 17 kg/38 lb Weight (with drives): 32 kg/71 lb
Power Requirements — AC Input	
Input Power Requirements	100V-240V AC 60 Hz/50 Hz
Max Power Output per PSU	764W
Environmental/Temperature Ranges	
Operating/Non-operating 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/Non-operating Humidity	-12°C DP minimum, 8% RH to 85% RH, max DP 21°C / 5% to 100% non-condensing
Operating/Non-operating Shock	5 Gs, 10ms, half sine pulses/15 Gs, 10ms, half sine pulses
Operating/Non-operating Vibration	0.21 Gs rms, 5Hz to 500 Hz random / 1.04 Gs rms, 2Hz to 200 Hz random
Standards/Approvals	
Safety Certifications	UL62368-1 ED3 (United States) CAN/CSA-C22.2 No.60950-1-07/No.62368-1-14, 2nd Ed (Canada) EN62368-1 (European Union) IEC 62368-1 Ed3 (International) CQC (China PRC – CQC 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, EN 55024, EN 61000-3-2, EN 61000-3-3 (Europe) AS/NZS CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KS 32 Class A/KS 35 (S. Korea) CNS 13438 Class A (Taiwan)
Harmonics	EN 61000-3-2 (EU)
Flicker	EN 55024 (EU) KS 24/KS 35 (S. Korea) CISPR 24/CISPR35
Immunity	EN 55024 (EU) KN 24/KN 35 (S. Korea) CISPR 24/CISPR35
Environmental Standards	The RoHS Directive (2015/65/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)

seagate.com



© 2021 Seagate Technology LLC. All rights reserved. Seagate Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Exos and the Exos logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or Gb, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2050.4-2112GB December 2021