



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	
<b>Controller Specifications</b>	
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, 16,32,64GB 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 10/25GbE 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
<b>Chassis Specifications</b>	
Redundant Path	Yes (SAS only)
Management/Status Reporting	Redfish API + IPMI & SES
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
<b>Power Requirements—AC Input</b>	
Input Power Requirements	100V-240V AC 60Hz/50Hz
Max Power Output per PSU	764W
<b>Environmental/Temperature Ranges</b>	
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
<b>Standards/Approvals</b>	
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)

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