



DATA SHEET

## Integrated Storage Server Exos AP 2U12



Powerful and compact, the Seagate® Exos® AP 2U12 all-in-one, expandable, low-cost integrated storage server supports growing businesses with the latest drive technologies and delivers modern processing power.



### Best-Fit Applications

- Small to mid-sized businesses
- Scalable capacity with the latest drive technologies
- Low latency 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.

**Reduce power consumption** 80 PLUS Gold and 80 PLUS Platinum power supply options with certified adaptive cooling technology.



Specifications	
Controller Specifications	
Controllers	One or two AP-BV-1 Controllers, redundancy optional
CPU	AMD SP3 7292P EPYC CPU (8,12,16 Core)
Memory	4 x DDR4 - 3200MHz DIMM slots - 8, 16,32,64GB DIMM support
Internal Boot Drive	Single or Dual M.2 NVMe SSD for Redundant Boot/Logs
Onboard I/O	On-board Mellanox CX4 Dual Port 10/25GbE I/O, / 2x 1GbE onboard connections (Management / Data)
PCIe Expansion	One low-profile, half-length PCI Express Gen 4 x16 Host Interface Slot One OCP v2.0 Gen 4x8 host interface slot
Storage Infrastructure	Gen 4 x8 PCIe Lanes to 12G Broadcom SAS Controller, Dual 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	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	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)
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)
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Power Supply Units	
Power Supply	Ecodesign (Part SP-PCM2-HE764-AC/ Model SPAXRTX-07xx) – Gold Power Efficiency 115VAC/60Hz   230VAC50/Hz 10% Load = >80%   >80% 20% Load = >87%   >88% 50% Load = >90%   >92% 100% Load = >87%   >88% Power Factor Condition 10% Loading = N/A 20% Loading = >0.90 50% Loading = >0.90 100% Loading = >0.95
Power Supply	Ecodesign (Model SPASGAT-01) – Platinum Power Efficiency 115VAC/60Hz   230VAC50/Hz 10% Load = >80%   >80% 20% Load = >90%   >90% 50% Load = >92%   >94% 100% Load = >89%   >91% Power Factor Conditions (PFC) 10% Loading = N/A 20% Loading = >0.90 50% Loading = >0.95 100% Loading = >0.95

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