



DATA SHEET

Efficient. Intelligent. Scalable.

## Exos AP 5U84



Seagate® Exos® AP 5U84 is the datasphere's affordable application platform for growth, performance, and high capacity.



### Product Highlights

- Maximize your investment with this low-TCO integrated compute and high-density storage system
- Leverage industry-leading CPU technology with dual Intel Xeon E5 v4 Family CPUs on each controller
- Efficiently manage your data center with a 5U rackmount enclosure and unique drawer design that provides easy access to drives
- Future-proof your data center with support for current and next-generation HDDs and SSDs
- Reduce power consumption with 80 PLUS Platinum certified power supplies and adaptive cooling technology

### Key Advantages

**Reduce Data Center Footprint.** Thanks to its powers of integration, Exos AP 5U84 makes bringing compute closer to storage a reality. Build a space-saving private cloud with this all-in-one high-density, high-capacity building block. With this high-performance solution, you'll never sacrifice fast input/output data speeds. Future-proofed, this Exos supports a variety of deployments. Modular, interchangeable components mean easy upgrades and fast innovations.

**Deliver a Versatile Architecture Built to Grow.** Minimize your TCO and store up to 1.344PB<sup>1</sup> of data with an enclosure that leads the industry in both density and cost-for-performance while enabling easy change in functionality by swapping to EBOD expansion controllers or hardware-based RAID controllers. This flexible enclosure includes support and capabilities to manage cables, universal ports, self-configuration controls, and standardized zoning while helping you accelerate market introduction of new technologies and significantly simplify development and testing of storage implementations.

**Ensure Applications Have Access to Critical Data or Create Powerful Multi-Node Configurations.** Dual controller redundancy, inter-controller communication and multi-controller drive access safeguards your data with powerful redundancy. Additionally, split the chassis into two nodes to yield powerful multi-node architecture in a single chassis. Each controller leverages an Intel® Xeon® E5 v4 Family CPU to assure your data will be processed with maximum throughput in either configuration.

**Reduce Touch Points Between Storage Modules and Storage Server.** This enclosure is suited for both high-capacity and transaction-dependent environments that demand tighter Service Level Agreement (SLA) requirements and need faster response times for optimal data availability. It meets stringent worldwide requirements for recycling and environmental impact, and can help you recognize cost savings through high performance while reducing power consumption with 80 PLUS Platinum certified adaptive cooling technology.

**Build In Security at the Foundation of the Data Life Cycle.** Protect your valuable business assets with compatible Seagate Secure™ SSDs and hard drives.

<sup>1</sup> When using Seagate 16TB drives



Specifications	
<b>Controller Specifications</b>	
Controller and Quantity	One or two AP-LS-1 controllers, redundancy optional
CPU Type and Quantity Per Controller	One Intel® Xeon® E5 v4 Family processor, up to 85W TDP
Memory Type and Quantity Per Controller	Four standard height DDR4-2400 dimm slots
Internal Boot Drive Per Controller	One or two M.2 SATA devices
Onboard I/O Per Controller	Intel i350-AM4 controller with two 1GbE RJ45 ports and one 1GbE management port
PCIe Expansion Per Controller	One low-profile, half-length PCIe gen 3 x16 slot; one custom daughter card PCIe gen 3 x16 slot
Storage Infrastructure	12G Broadcom SAS 3008 controller onboard
Inter-Controller Link	x16 PCIe
<b>Chassis Specifications</b>	
Redundant Drive Path	Yes (SAS only)
Host/Expansion I/O Ports	Two x4 mini-SAS HD Expansion I/O connectors
Management/Status Reporting	Out-of-band CLI via management port and in-band SCSI enclosure services
Device Support	12Gb/s SAS drives
Max Drives Per Enclosure	84 x 3.5-in LFF drive slots (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 units (PSU), cooling modules, side-plane expanders, and controllers
Physical	Height: 220mm / 8.65 in (5 EIA units)   Width: 483mm / 19 in (IEC rack compliant)   Depth: 933mm / 36.75 in   Weight: 135kg / 298 lb (with drives, no rail kit)
<b>Power Requirements</b>	
Input Power Requirements	180VAC-264VAC, 50Hz/60Hz
Max Power Output per PSU	2200W
<b>Environmental Requirements</b>	
Operating/Nonoperating Altitude	-100m to 3000m (-330 ft to 10,000 ft) / -100m to 12,192m (-330 ft to 40,000 ft)
Operating/Nonoperating Temperature	5°C to 35°C (de-rate 5°C above 2133m) / -40°C to +70°C (-40°F to +158°F)
Operating/Nonoperating Humidity	-12°C DP and 8% RH to 21°C DP and 80% RH, Max DP 21°C, Max rate of change (°C/hr): 5/20 / 5% to 100% noncondensing
Operating/Nonoperating Shock	5 Gs 10ms half sine (X, Y, and Z axes), 20 Gs 10ms half sine (X and Y axes) / 30 Gs 10ms half sine
Operating/Nonoperating Vibration	0.21 Gs rms (5Hz to 500Hz) / 1.04 Gs rms (2Hz to 200Hz)
<b>Standards/Approvals</b>	
Safety Certifications	UL 60950-1 (USA and Canada)   EN 60950-1 (European Union)   IEC 60950-1 (CB certification)
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)   KN 32 Class A/KN 35 (S. Korea)   CNS 13438 Class A (Taiwan)
Standard Marks/Country Approvals	North America (FCC, UL, cUL, ICES/NMB-003 Class A), Europe (CE), China (CCC – PSU only), Taiwan (BSMI), Korea (KC), Japan (VCCI), Australia/New Zealand (RCM – formerly G-tick)

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