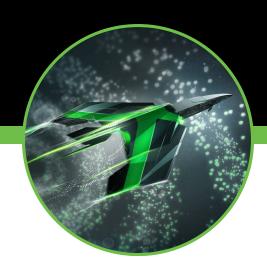**EXOS** ™
ENTERPRISE

S E A G A T E

DATA SHEET

Integrated Storage Server
Exos AP 5U84

Seagate® Exos® AP 5U84 Integrates compute with massive capacity for larger data storage infrustructure applications.

EXOS ™
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Product Highlights

- Maximize your investment with this High value per TB integrated compute and high-density storage system

- Leverage industry-leading CPU technology and modern data storage elements in a single enclosure

- Efficiently manage your storage infrustructure with a 5U rackmount enclosure and unique drawer design that provides easy access to drives

- Future-proof your facilities with support for current and next-generation Hard drives and SSDs

Key Advantages

Minimize data storage power and space requirments with this high-density, high-capacity building block. Exos AP 5U84 supports a variety of applications and use case.

A versatile architecture designed to scale Store petabytes of local data with this storage server. Deploy the ultimate disk drives and enclosure density minimizing power costs and maximizing value per TB.

Create Powerful Multi-Node Configurations Dual controllers, inter-controller communication and multi-controller drive access deliver availability. Capable of powerful single and multi-node architecture in a single storage server solution.

Reduce Power Consumption, 80 PLUS Titanium power supply with certified adaptive cooling technology.

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

Specifications	
Controller Specifications	
Controllers	One or two AP-BV-1 Controllers, redundancy optional
CPU	AMD SP3 7292P EPYC CPU (12,16 Core)
Memory	4 x DDR4 - 3200MHz DIMM slots - 32,64,128GB DIMM support
Internal Boot Drive	Single or Dual M.2 NVMe SSD for Redundant Boot/Logs
Onboard I/O	On-board NVidia 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 Drive Path	Yes (SAS only)
Host/Expansion I/O Ports	Two ×4 mini-SAS HD Expansion I/O connectors
Management/Status Reporting	Redfish API + IPMI & SES
Device Support	12Gb/s SAS drives
Max Drives Per Enclsoure	84 × 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)
Power Requirements	
Input Power Requirements	200VAC-240VAC, 50Hz/60Hz
Max Power Output per PSU	2200W
Environmental Requirements	
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	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 and 10% RH to 21°C DP and 80% RH, Max DP 21°C / 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)
Operating/Nonoperating Vibration	0.21 Gs rms (5Hz to 500Hz) / 1.04 Gs rms (2Hz to 200Hz)
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)
Standard Marks/Country Approvals	North America (FCC, UL, cUL, ICES/NMB-003 Class A), Europe (CE), China (CQC – PSU only), Taiwan (BSMI), Korea (KC), Japan (VCCI), Australia/New Zealand (RCM – formerly C-tick)
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Power Supply Units	
Power Supply	Ecodesign (Part UD-PCM2-2200-AC/ Model SGT-S-2200ADE00) – Titanium Power Efficiency 230VAC50/Hz 10% Load = >90% 20% Load = >94% 50% Load = >96% 100% Load = >91% Power Factor Conditions (PFC) 10% Loading = >0.80 20% Loading = >0.95 50% Loading = >0.95 100% Loading = >0.95

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