



DATA SHEET

## Integrated Storage Server Exos AP 5U84



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



### Product Highlights

- Maximise 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 infrastructure 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

Minimise data storage power and space requirements 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, minimising power costs and maximising 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 - 3,200 MHz DIMM slots - 32,64,128 GB 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 x4 mini-SAS HD Expansion I/O connectors   |
| Management/Status Reporting         | Redfish API + IPMI & SES  |
| Device Support                      | 12 Gb/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: 220 mm/8.65 in (5 EIA units)   Width: 483 mm/19 in (IEC rack compliant)   Depth: 933 mm/36.75 in   Weight: 135 kg/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/Non-operating Altitude    | -100 m to 3,000 m (-330 ft to 10,000 ft) / -100 m to 12,192 m (-330 ft to 40,000 ft)  |
| 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 and 10% RH to 21°C DP and 80% RH, Max DP 21°C / 5% to 100% non-condensing  |
| Operating/Non-operating Shock       | 5 Gs 10ms half sine (X, Y, and Z axes), 20 Gs 10ms half sine (X and Y axes)   |
| Operating/Non-operating 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%   |
| Power Supply                        | Power Factor Conditions (PFC)   |
|                                     | 10% Loading = >0.80   |
|                                     | 20% Loading = >0.95   |
|                                     | 50% Loading = >0.95   |
|                                     | 100% Loading = >0.95  |

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