



DATA SHEET

## Integrated Storage Server Exos AP 2U24



Seagate® Exos® AP 2U24 is the data sphere's value rich performance storage server. Leverage the latest drive technologies, and modern compute in a cost-effective, scalable 2U, 24-drive rack mounted storage enclosure.



### Best-Fit Applications

- Small footprint high performance applications
- High-bandwidth, low-latency environments
- 4K and 8K workflows, medical offices, surveillance
- Image sequence processing
- Hybrid tiered systems

## Key Advantages

Harness fast data transfers with a 12 Gb/s SAS interface paired with Seagate SSD drives.

Gain more space and performance while lowering TCO with a 2U rack enclosure storing up to 24 small form factor drives.

Build an efficient compute and storage environment with modern processing power and mass storage in a compact form factor.

Select controller performance and high-availability options to suit budget and/or software requirements with dual x86 controllers.

Support virtually any current or future network infrastructure with 10 GbE, 25 GbE and 100 GbE I/O options.

Dual 12 Gb/s SAS controllers are compliant with the latest architecture standards for maximum data throughput.

Tap into increased reliability and business/operations continuity with fully redundant, hot-swappable components.

Right-size your configuration by purchasing only what you need.

Shares design and multiple FRUs with various Exos® products for modular, easy-to-service AP and EBOD ecosystems.

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



Specifications											
<b>Controller Specifications</b>											
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, 64 GB 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 10/25 GbE 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										
<b>Chassis Specifications</b>											
Redundant Path	Yes (SAS only)										
Management/Status Reporting	Redfish API + IPMI & SES										
Device Support	12 Gb/s SAS and 6 Gb/s SATA SSDs										
Max Drives Per Enclosure	up to 24 x 2.5 in SFF drives (for a full list of supported drives, please contact your account or sales manager)										
Hot-Swappable Components	SSDs (in chassis data slots), power supply and cooling modules units (PCU), controllers										
Physical	Height: 87.9 mm/3.46 in   Width: 443 mm/17.44 in   Depth: 630 mm/24.8 in   Width (w/ear mounts): 483 mm/19.01 in   Weight: 17 kg/38 lb   Weight (with drives): 30 kg/66 lb										
<b>Power Requirements — AC Input</b>											
Input Power Requirements	100V-240V AC 60 Hz/50 Hz										
Max Power Output per PSU	764W										
<b>Environmental/Temperature Ranges</b>											
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 minimum, 8% RH to 85% RH, max DP 21°C / 5% to 100% non-condensing										
Operating/Non-operating Shock	5 Gs, 10ms, half sine pulses/15 Gs, 10ms, half sine pulses										
Operating/Non-operating Vibration	0.21 Gs rms, 5Hz to 500 Hz random / 1.04 Gs rms, 2Hz to 200 Hz 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)										
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 61000-3-3 (EU)										
Immunity	EN 55024 (EU)   KS 24/KS 35 (S. Korea)   CISPR 24/CISPR35										
Environmental Standards	The RoHS Directive (2011/65/EU)   The WEEE Directive (2012/19/EU)   The REACH Directive (EC/1907/2006)   The Batteries Directive (2006/66/EC)										
Standard Marks/Approvals	The RoHS Directive (2015/65/EU)   The WEEE Directive (2012/19/EU)   The REACH Directive (EC/1907/2006)   The Batteries Directive (2006/66/EC)										
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)										
<b>Power Supply Units</b>											
Power Supply	<p>Ecodesign (Part SP-PCM2-HE764-AC/Model SPAXRTX-07xx) – Gold</p> <table border="0"> <tr> <td>Power Efficiency 115VAC/60Hz 230VAC50/Hz</td> <td>Power Factor Conditions (PFC)</td> </tr> <tr> <td>20% Load = &gt;87% &gt;88%</td> <td>50% Loading = &gt;0.90</td> </tr> <tr> <td>50% Load = &gt;90% &gt;92%</td> <td></td> </tr> <tr> <td>100% Load = &gt;87% &gt;88%</td> <td></td> </tr> </table>	Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Conditions (PFC)	20% Load = >87% >88%	50% Loading = >0.90	50% Load = >90% >92%		100% Load = >87% >88%			
Power Efficiency 115VAC/60Hz 230VAC50/Hz	Power Factor Conditions (PFC)										
20% Load = >87% >88%	50% Loading = >0.90										
50% Load = >90% >92%											
100% Load = >87% >88%											
Power Supply	<p>Ecodesign (Model SPASGAT-01) – Platinum</p> <table border="0"> <tr> <td>Power Efficiency 115 VAC/60 Hz   230 VAC/50 Hz</td> <td>Power Factor Condition(PFC)</td> </tr> <tr> <td>10% Load = &gt;80%   &gt;80%</td> <td>50% Loading = &gt;0.90</td> </tr> <tr> <td>20% Load = &gt;90%   &gt;90%</td> <td></td> </tr> <tr> <td>50% Load = &gt;92%   &gt;94%</td> <td></td> </tr> <tr> <td>100% Load = &gt;89%   &gt;91%</td> <td></td> </tr> </table>	Power Efficiency 115 VAC/60 Hz   230 VAC/50 Hz	Power Factor Condition(PFC)	10% Load = >80%   >80%	50% Loading = >0.90	20% Load = >90%   >90%		50% Load = >92%   >94%		100% Load = >89%   >91%	
Power Efficiency 115 VAC/60 Hz   230 VAC/50 Hz	Power Factor Condition(PFC)										
10% Load = >80%   >80%	50% Loading = >0.90										
20% Load = >90%   >90%											
50% Load = >92%   >94%											
100% Load = >89%   >91%											

seagate.com



© 2022 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Exos and the Exos logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. Seagate reserves the right to change, without notice, product offerings or specifications. DS2051.5-2212US