



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 12Gb/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 10GbE, 25GbE, and 100GbE I/O options.

Dual 12Gb/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, 16,32,64GB 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
<b>Chassis Specifications</b>	
Redundant Path	Yes (SAS only)
Management/Status Reporting	Redfish API + IPMI & SES
Device Support	12Gb/s SAS and 6Gb/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: 87.9mm / 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): 30kg / 66 lb
<b>Power Requirements—AC Input</b>	
Input Power Requirements	100V-240V AC 60Hz/50Hz
Max Power Output per PSU	764W
<b>Environmental/Temperature Ranges</b>	
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
<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	Ecodesign (Part SP-PCM2-HE764-AC/ Model SPAXRTX-07xx) – Gold Power Efficiency 115VAC/60Hz 230VAC50/Hz 20% Load = >87% >88% 50% Load = >90% >92% 100% Load = >87% >88% Power Factor Conditions (PFC) 50% Loading = >0.90
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 Condition(PFC) 50% Loading = >0.90