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 ×86 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	
Controller Specifications	
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
Chassis Specifications	
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 Enclsoure	up to 24 × 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
Power Requirements—AC Input	
Input Power Requirements	100V-240V AC 60Hz/50Hz
Max Power Output per PSU	764W
Environmental/Temperature Ranges	
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
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)
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)
Power Supply Units	
Power Supply	Ecodesign (Part SP-PCM2-HE764-AC/ Model SPAXRTX-07xx) – Gold - Gold 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	Ecodesign (Model SPASGAT-01) – Platinum Power Efficiency 115VAC/60Hz | 230VAC50/Hz Power Factor Condition(PFC) 10% Load = >80% | >80% 50% Loading = >0.90 20% Load = >80% | >90% 50% Load = >92% | >94% 100% Load = >89% | >91%

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