



DATA SHEET

Fast. Scalable. Efficient.

NyTRO AP 2U24



Seagate[®] NyTRO[®] AP 2U24 is the cost-effective, scalable 2U storage rack for high-bandwidth, low-latency tasks, featuring dual 12Gb/s SAS controllers.



Best-Fit Applications

- Small and mid-sized deployments
- 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 NyTRO SSD drives.

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

Build an efficient compute and storage environment with a fast SSD 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.

Expand your storage as your business grows with up to 8 chassis.



Specifications	
Controller Specifications	
Controller and Quantity	One or two AP-LS-1 controllers, redundancy optional
CPU Type and Quantity Per Controller	One Intel® Xeon® E5 processors v4 family up to 85W TDP
Memory Type and Quantity Per Controller	up to 4 standard-height DDR4-2400 dimm slots
Internal Boot Drive Per Controller	Two M.2 SATA devices
Onboard I/O	Two 10GbE RJ45 ports (Intel X540); two 1GbE RJ45 ports (Intel i350-AM4); one 1GbE RJ45 port (management from BMC)
PCIe Expansion	One low-profile, half-length PCIe gen 3 x16 slot; one Seagate AP-LS-1 custom form-factor PCIe gen 3 x16 slot
Storage Infrastructure	One 12G/s SAS controller with optional turbo mode adding second SAS controller
Host/Expansion I/O Ports	Two x4 mini-SAS HD 12G expansion I/O connectors
Inter-Controller Link	x16 PCIe
Chassis Specifications	
Redundant Path	Yes (SAS only)
Management/Status Reporting	Out-of-band CLI via management port and in-band SCSI enclosure services
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
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	UL 60950-1/UL62368-1 ED2 (United States) CAN/CSA-C22.2 No.60950-1-07/No.62368-1-14, 2nd Ed (Canada) EN 60950-1/EN62368-1 (European Union) IEC 60950-1/IEC 62368-1 Ed2 (International) CCC (China PRC – CCC Power Supplies) BIS (India – BIS Power Supplies)
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Emissions (EMC)	FCC CFR 47 Part 15 Subpart B Class A (United States) ICES/NMB-003 Class A (Canada) EN 55032 Class A AS/NZS CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KN 32 Class A CNS 13438 Class A (Taiwan)
Harmonics	EN 61000-3-2 (EU)
Flicker	EN 61000-3-3 (EU)
Immunity	EN 55024 (EU) KN 24/KN 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	Australia/New Zealand (RCM), Canada (cUL/ICES/NMB-003 Class A), China (CCC – PSU only), European Union (CE), Japan (VCCI), South Korea (KC), Taiwan (BSMI), United States (FCC/UL), The Eurasian Economic Union (EAC), India (BIS)

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