



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-BV-1 Controllers, redundancy optional
CPU Type and Quantity Per Controller	AMD SP3 7292P EPYC CPU (8,12,16 Core)
Memory Type and Quantity Per Controller	4 x DDR4 - 3200MHz DIMM slots - 8, 16,32,64GB DIMM support +
Internal Boot Drive Per Controller	Dual NVMe M.2 Board with Single or Dual M.2 NVMe SSD
Onboard I/O	On-board Mellanox CX4 Dual Port 10/25GbE I/O 2 x 1GbE onboard connections (Management / Data)
PCIe Expansion	One low-profile, half-length PCI Express Gen 4 x16 Host Interface Slot, and one OCP v2.0 Gen 4x8 host interface slot
Storage Infrastructure	On each controller: Gen 4 x8 PCIe Lanes to 12G Broadcom SAS Controller, 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 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	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)
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, 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)

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