



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 12 Gb/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 12 Gb/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 ×86 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 $\mathsf{Exos}^{\scriptscriptstyle{(0)}}$ 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, 64 GB 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 10/25 GbE 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 | 12 Gb/s SAS and 6 Gb/s SATA SSDs |
| Max Drives Per Enclosure | 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: 87.9 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 |
| Power Requirements — AC Input | |
| Input Power Requirements | 100V-240V AC 60 Hz/50 Hz |
| Max Power Output per PSU | 764W |
| Environmental/Temperature Ranges | |
| 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 |
| 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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