



DATA SHEET

Resilient. Fast. Efficient.

Exos CORVAULT



Exos[®] CORVAULT Self Healing Storage redefines petabyte-scale storage infrastructure with industry-leading innovation in every aspect of the system.



Product Highlights

- Effortlessly deploy capacity with a maximum-density enclosure.
- Accelerate data access with performance up to 14GB/s sequential read, 12GB/s sequential write and 17,680 IOPS.
- Specially-tuned modular chassis maximizes drive performance and longevity by protecting against vibrational and acoustic interference, heat, and power irregularities.
- Engineered and manufactured by Seagate for tightly-integrated, highly-compatible and predictable performance.
- Capacity, reliability and speed - perfect for any macro-edge or core data center.

Key Advantages

Introducing a new category of intelligent storage. Exos CORVAULT delivers sophisticated data protection, security and streamlined management to tackle the challenges of an exascale world.

Reliable and Self-healing. Field-proven design with five-nines (99.999%) availability. Autonomous Drive Regeneration (ADR) reduces human intervention and e-waste by automatically renewing hard drives "in situ" and on the fly.

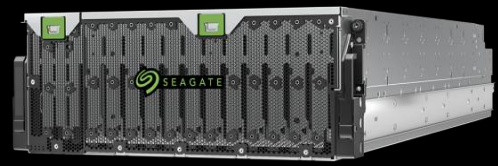
Hyperscale-class efficiencies. Combining maximum data density in 4U with the latest hard drive technology delivers storage efficiencies similar to cutting-edge cloud service providers.

Architected for speed and resilience. Redundant active-active controllers powered by the 6th gen VelosCT ASIC and ADAPT erasure code data protection software dramatically streamline overhead, throughput, management and recovery.

Powerful configuration and management. One-button configuration accelerates deployment while informative remote diagnostics and non-disruptive system updates simplify maintenance.

Seagate Secure built in. Hard drives are self-encrypting (SED) for maximum security without controller-level overhead. SFTP for secure file transfer. Optional FIPS 140-3 configuration.

Reduce power consumption 80 PLUS Titanium and 80 PLUS Platinum power supply options, with certified adaptive cooling technology.



Specifications	
Controllers	Redundant, active-active, hot-swappable controllers powered by gen 6 VelosCT ASIC
System Performance	14 GB/s sequential read throughput, 12 GB/s sequential write throughput, 17,680 IOPS
Device Support	Up to 106 Exos [®] self-encrypting SAS HDDs
Data Protection	Seagate ADAPT erasure coding -or- RAID 5, 6
Self healing technology	Autonomous Drive Regeneration (ADR)
Hot-Swappable Components	Eight removable expander cards, two per 24 HDD baseplane Redundant hot-swap drives, fans, power supplies
System Capacity	Varies with the drives used: (i.e. 2 PB raw with 20 TB Drives)
Physical	Height: 176.4mm / 6.94 in Width (excluding ears and rails): 441mm / 17.36 in Depth (including handles, excluding cables): 1139 mm / 44.84 in Weight: 44.9kg / 99 lb Weight (with drives): 131.5kg / 290 lb
Host I/O Ports	Four mini-SAS HD ports, no expansion
Management	
Interface Types	10/100/1000 Ethernet
Protocols Supported	SNMP, SSL, SSH, SMTP, HTTP(S)
Management Consoles	Web-based GUI or Command Line Interface (CLI)
Management Software	Seagate Systems storage management console One-button configuration remote diagnostics nondisruptive updates
Power Requirements—AC Input	
Input Power Requirements	200V-240V AC, 50Hz-60Hz
Max Power Output per PSU	2000W
Environmental/Temperature Ranges	
Operating/Nonoperating Temperature	5°C to 35°C (41°F to 95°F, derated by 1°C per 300m above 900m) / -40°C to +70°C (-40°F to +158°F) (max rate of change: 20°C)
Operating/Nonoperating Humidity	-12°C DP/10 to 80% (max) (noncondensing) / -12°C DP/5 to 100% (max) (noncondensing)
Operating/Nonoperating Shock	3.0 g, 11 ms (per axis) / 20.0 g, 7ms, 10 shock pulses (2 shocks per axis X, Y in positive and negative direction, and 2 shocks in positive Z axis) OR ISTA 3H (mounted in a rack, horizontal impact on all sides, 4-in drop tests)
Operating/Nonoperating Vibration	0.18Grms, 5 Hz to 500 Hz, 30 min per axis / 0.54 Grms 6Hz to 200 Hz (ISTA 3E)
Standards/Approvals	
Safety Certifications	UL 62368-1 (United States) CAN/CSA-C22.2 No 62368-1-19 (Canada) EN 62368-1 (European Union) IEC 62368-1 / IEC 60950-1 (International) CCC (China PRC - CCC Power Supplies) BIS (India - BIS Power Supplies)
Emissions (EMC)	FCC CFR 47 Part 15 Subpart B Class A (USA) ICES/NMB-003 Class A (Canada) EN 55032:2012 Class A (EU) AS/NZS CISPR 22/CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KN 22/KN 32 Class A (S. Korea) 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)
Environmental Standards	The RoHS Directive (2011/65/EU) The WEEE Directive (2012/19/EU) The REACH Directive (EC) No. 1907/2006
Standard Marks/Approvals	United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC), Russia, Mexico, Germany, South Korea, Taiwan, India
Ecodesign	Commission Regulation (EU) 2019/424 (Directive 2009/125/EC)
Power Supply Units	
Power Supply	Power Efficiency 230VAC/50/Hz Ecodesign (Model 700-014575-0800) - Platinum Power Factor Condition(PFC) 10% Load => 80% 20% Load => 80% 50% Load => 81% 100% Load => 81%
Power Supply	Power Efficiency 230VAC/50/Hz Ecodesign (Model SPASGAT-02) - Titanium Power Factor Condition(PFC) 10% Load => 90% 20% Load => 90% 50% Load => 96% 100% Load => 91%

seagate.com



© 2022 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Exos, the Exos logo, and Seagate Secure are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2058.2-2212US