



DATA SHEET

Efficient. Agile. Scalable.
Exos E 4U106



Seagate® Exos™ E 4U106 is the datasphere's largest building block delivering industry-first capacity and density without sacrificing data access speed.



Product Highlights

- Scale your data center with this very high density storage platform
- Minimize a data center's footprint and power consumption while maximizing storage space
- Eliminate efficiency-draining acoustic interference with the proprietary noise attenuator
- Maintain your data center easily with toolless drive carriers that save hours of time
- Ensure data is constantly available with hot-swappable controllers, PSUs, system fan modules, drives, and expander cards

Key Advantages

Build Exabyte-Scale Data Centers Fast. Increase the amount of data that fits in a 4U rack by leveraging up to 106 of our high-capacity hard drives in a single enclosure that holds up to an unprecedented 1.7PB¹ of business intelligence. With an overall maximum bandwidth of 36GB/s, you can access mission-critical and archival data with lightning speed.

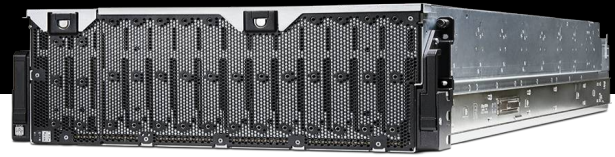
Deliver Versatile Architecture Built to Grow. This flexible enclosure includes support and capabilities to manage cables, universal ports, self-configuration controls, and standardized zoning. As the largest building block of our modular systems—which make all critical components interchangeable regardless of size or budget—this platform sets the new standard for data center solutions with extremely high density and capacity, all with unparalleled reliability and performance.

Easy to Set Up, Maintain, and Expand. This system's user-focused design reduces support calls and minimizes system downtime. Its modularity makes it first-in-class for reliability, easy setup, maintenance, and expansion via hot-swappable expanders and dual data paths, as well as redundant I/O modules, fans, and power supplies. Additionally, this system features toolless drive carriers that allow an administrator to snap drives into the 106 bays in seconds.

Reduce Cost and Resources With Energy-Efficient Features. This enclosure is suited for high data retention requirements that are expected to grow. Innovative drive placement maximizes airflow and minimizes power consumption, and unique performance, efficiency, and scalability features provide an unprecedented low TCO.

Build In Security at the Foundation of the Data Life Cycle. Protect your most valuable business assets with Seagate Secure™ cybersecurity features.

¹ When using Exos 16TB drives



Specifications	
Redundant Path	Yes (SAS only)
Host/Expansion I/O Ports	Four x4 mini-SAS HD Expansion I/O connectors per I/O module
Management Ports	Includes two x1G Ethernet RJ-45 ports
Management/Status Reporting	Out-of-band CLI via management port and in-band SCSI Enclosure Services
Device Support	6Gb/s SATA and 12Gb/s SAS drives
Max Drives per Enclosure	106 (for a full list of supported drives, please contact your account or sales manager)
Hot-Swappable Components	Hard drives, power supply units (PSUs), cooling modules, side-plane expanders, and I/O modules
Physical	Height (with top cover): 176.4mm / 6.95 in Width (without ears and rails): 441mm / 17.4 in Depth (with handles, without cables): 1139mm / 44.8 in Weight 45kg / 99 lb Weight (with drives): 141kg / 310 lb ¹
Power Requirements	
Input Power Requirements	200VAC-240VAC, 50Hz/60Hz
Max Power Output per PSU	2000W
Environmental/Temperature Ranges	
Operating/Nonoperating Altitude	-100m to 3000m (-330 ft to 10,000 ft) / -100m to 12,192m (-330 ft to 40,000 ft)
Operating/Nonoperating Temperature	ASHRAE A2, 5°C to 35°C (41°F to 95°F) derate 1°C for every 300m above 900m / -40°C to +70°C (-40°F to +158°F)
Operating/Nonoperating Humidity	-12°C DP and 8% RH to 21°C DP and 80% RH, Max DP 21°C, Max rate of change (°C/hr): 5/20 / 5% to 100% noncondensing
Operating/Nonoperating Shock ²	3 Gs, 11ms (per axis) / 15 Gs, 7ms, 10 shock pulse
Operating/Nonoperating Vibration ³	0.18 Gs rms, 5Hz to 500Hz, 30 min per axis / 0.54 Gs rms (in Z) 0.25 Gs rms (in X & Y), 6Hz to 200Hz
Standards/Approvals	
Safety Certifications	UL 60950-1 (United States) CAN/CSA-C22.2 No.60950-1- 07 (Canada) EN 60950-1 (European Union) IEC 60950-1 (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, EN 55024, EN 61000-3-2, EN 61000-3-3 (Europe) AS/NZS CISPR 32 Class A (Australia/New Zealand) VCCI Class A (Japan) KN 32 Class A/KN 35 (S. Korea) CNS 13438 Class A (Taiwan)
Environmental Standards	The RoHS Directive (2011/65/EU) The WEEE Directive (2012/19/EU) The REACH Directive (EC/1907/2006)
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)
Country Approvals	United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC), Russia, Mexico, Germany, South Korea, Taiwan, India

¹ Weight with drives includes CMA and rack rails, as well as 1.8 lb per drive.

² Nonoperating shock measured with 2 shocks per axis X, Y in positive and negative direction and 2 shocks in positive Z axis

³ Nonoperating vibration measured with chassis mounted on test fixture for 4 hrs in each axis (ISTA 3E)

seagate.com



© 2020 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. The export or re-export of Seagate hardware or software is regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit www.bis.doc.gov), and may be controlled for export, import, and use in other countries. Seagate reserves the right to change, without notice, product offerings or specifications. DS1980.8-2003US March 2020