Seagate® Exos™ X 5U84 is the datasphere’s ultra-dense, intelligent solution for maximum capacity and performance at an exceptionally low TCO.

Key Advantages

**Maximum Capacity and Consistent High Performance.** Up to 1.3 PB\(^1\) of data in a single 5U enclosure with throughputs reaching 7 GB/s sequential read, and 5.5 GB/s sequential write and up to 99.999% high availability. Easily expand to accommodate data proliferation with three additional Exos X 5U84 systems for a total capacity of 2 PB.

**Cost-Optimised Architecture.** This flexible solution is perfect for businesses with demanding streaming environments that require high read and write throughput, while still needing considerable storage space. Built to ensure all space is used to its maximum potential, application access to data is virtually instantaneous, ensuring IT and end users can work efficiently.

**Easy to Set Up, Maintain, and Expand.** All system components — the enclosure, the controller, the firmware, and the drives — are developed and optimised by our engineers to work together seamlessly. This reduces support calls and eliminates technical learning curves. Modular architecture makes components interchangeable between systems, and upgrades are simple due to common FRUs, PCMs, controllers, and software.

**Get Data to Applications Fast and Protect Valuable Assets.** This system is full of features that enable applications to access data with up to a 99.999% availability design. Parallel architecture, multi-core processing, data replication, and fast streaming make access to data unfettered, while exclusive Seagate ADAPT data protection technology delivers fast drive rebuilds that virtually eliminate system downtime.

**Build In Security at the Foundation of the Data Life Cycle.** Protect the most valuable business assets with Seagate Secure™ cybersecurity features and intelligent firmware — such as SFTP, SED support, and administrator access controls — that provide built-in security measures for reliable and safe file access, transfer, and management.

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\(^1\) When using Exos 16 TB drives
Specifications

4005/5005 Controller Performance
7 GB/s read throughput | 5.5 GB/s write throughput

Expansion BODs
J1284 (5U84) | Maximum of 3+ 5U84 EBODs

Advanced Features
Thin provisioning | Snapshots | Asynchronous replication

High-Availability Features
Redundant hot-swap controllers | Redundant hot-swap drives, fans, power | Dual power cords | Hot standby spare | Automatic failover | Multi-path support

Device Support
SAS HDD | NL-SAS HDD | SAS SSD

Data Protection
Seagate ADAPT | RAID levels supported: 0, 1, 3, 5, 6, 10, and 50

System Configuration (84, 3.5-in devices)
Up to 84 drives per chassis | 1,344 TB max capacity per chassis (based on 16 TB HDDs)

Physical
Height: 222.3 mm / 8.75 in | Width: 444.5 mm / 17.5 in | Depth: 981 mm / 38.63 in | Width w/ear mounts: 483 mm / 19.01 in | RBOD weight: 82 kg / 180 lb | RBOD weight (with drives): 135 kg / 298 lb | EBOD weight: 80 kg / 175 lb | EBOD weight (with drives): 130 kg / 287 lb

Hosts
External Ports
8 per system

Fibre Channel Models
Host speed: 16Gb/s, 8Gb/s Fibre Channel | Interface type: SFP+

iSCSI Models
Host speed: 10 Gb/s, 1 Gb/s iSCSI | Interface type: SFP+

SAS Models
Host speed: 12 Gb/s, 6 Gb/s SAS | Interface type: HD Mini-SAS

System Configuration
System Memory
16 GB per system (4005), 32 GB per system (5005)

Volumes per System
1,024

Cache
Mirrored cache: Yes | Super-capacitor cache backup: Yes | Cache backup to flash: Yes – non-volatile

Management
Interface Types
10/100/1000 Ethernet, Mini USB

Protocols Supported
SNMP, SSL, SSH, SMTP, HTTP(S)

Management Consoles
Web GUI, CLI

Management Software
Seagate Systems storage management console | Remote diagnostics | Non-disruptive updates | Volume expansion

Power Requirements — AC Input
Input Power Requirements
180VAC-240VAC, 50Hz/60Hz

Max Power Output per PSU
2200W

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 and 8% RH to 21°C DP and 80% RH, max DP 21°C / 5% to 100% non-condensing

Operating/Non-operating Shock
5 Gs, 10ms, half sine pulses/20 Gs, 10ms, half sine pulses

Operating/Non-operating Vibration
0.21 Gs rms 5 Hz to 500 Hz random / 1.04 Gs rms 2 Hz to 200 Hz random

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

Emissions (EMC)
FCC CFR 47 Part 15 Subpart B Class A (United States) | IECES/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/KIN 35 (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/KIN 35 (S. Korea)

Environmental Standards

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 (BISMI), United States (FCC/UL)

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