EXOS / SCALE

SEAGATE

DATA SHEET

High-density storage engineered for the data demands of tomorrow.

Exos Scale EX4U74

Seagate® Exos® SCALE EX4U74 are the most comprehensive storage solutions for tomorrow's data demands. Engineered by Seagate, these ultra-dense SAS-4 JBOD systems combine next-gen Mozaic™ drive readiness with energy-efficient design for AI, edge and sovereign data infrastructure.

Built for:

- Data consolidation and infrastructure refresh
- Hybrid cloud repatriation and tiered storage
- Edge aggregation and compliance-driven deployments
- Managed service scaling and modular expansion

Key Advantages

Industry-leading capacity 3.2 PB in a single enclosure, engineered by Seagate. Built to accommodate today's largest drives and tomorrow's innovations.

Customisable and configurable Support for deployment of either SAS or SATA drives. Pre-configured SAS zoning for streamlined deployment.

Operational efficiency Up to 30% lower power consumption and 70% improved cooling efficiency compared to previous generations. Optimised airflow and best-in-class, watts-per-terabyte performance. Designed to reduce OpEx and minimise TCO.

Simplified deployment 1m rack depth for space-constrained sites, remote branches, IoT hubs and edge analytics. Built-in carrier and internal cable management. Toolless access and drawer-style serviceability. Built for flexibility across OCP racks, standard data centres and edge deployments. Configurable for diverse workload requirements.

Enterprise-grade security Seagate Secure™ component certificate. In-band via SES/out-of-band management via Redfish. Compliance-ready for air-gapped and sovereign data deployments.

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Specifications	4U74
Chassis Specifications	
Operation	High Availability (SAS), Non-High Availability (SATA or SAS)
Host Interface - I/O Ports	Dual redundant I/O Modules (IOM) 4x Mini-SAS HD port per IOM (24 Gb/s, 12 Gb/s, 6 Gb/s SAS speeds supported)
Management/Status Reporting	SCSI enclosure services (in-band) Redfish API, SSH CLI (out of band via Ethernet)
Drive Interface	12 Gb/s SAS 6Gb/s SATA 24 Gbps SAS SSDs
Max Drives per Enclosure	74 x 3.5 in drive bays up to 26 SSD for a full list of supported drives, please contact your account or sales manager
LED Indicators	Front: System Power, Host connectivity, System ID, Fault-drawer, Fault Application, Fault-Rear panel Rear: IOM (Power, Fault, mini-SAS-HD Port activity, mini-SAS-HD Port Fault) | RJ45 (Speed, Activity) | Fan (Fault) | PSU(Power, Fault) Drive: ID, Fault Expander Module LED: Expander Power, Fault
Physical Dimensions and Weight	Height: 175.5 mm/6.91 in Width: 448.5 mm/17.66 in Depth: 932.0 mm/36.69 in Weight (without drives): 49.9 kg / 110 lbs Weight (with drives): 98.9 kg / 218 lbs
Serviceability	Hot swappable components: Drives (HDD/SSD), IOM, power supply units (PSU), fans, link expansion modules (LEM) Cable Management (CMA): No external cable management required
Cooling	
Enclosure	4 dual-impeller enclosure fans, front-to-rear cooling
Power Supply	Dual PSUs with built-in fans
Power Requirements	
Input Power Requirements	200-240VAC, 50Hz/60Hz
Max Power Output per PSU	1800W
Power Supply Units	2x Ecodesign 1800W PSU Model No. CSU1800AT-3 Power Efficiency: 80+ Titanium Power Factor Correction (PFC): ≥ 0.95 for 20% loading or above 2x Ecodesign 1800W PSU Model No. TEC1800-12-074NA Power Efficiency: 80+ Titanium Power Factor Correction (PFC): ≥ 0.95 for 20% loading or above
Environmental Requirements	
Operating/Nonoperating Altitude	–100 m to 3,000 m (–330 ft to 10,000 ft) / –100 m to 12,192 m (–330 ft to 40,000 ft)
Operating/Nonoperating Temperature	ASHRAE A2, 10°C to 35°C (50°F to 95°F), derate 1°C per 300m above 900m, 20°C/hr max rate of change / –40°C to 70°C (–40°F to 158°F) ASHRAE A3 under certain conditions[1]
Operating/Nonoperating Humidity	–12°C DP min and 8% RH to 21°C DP max and 80% RH / 5% RH to 100% RH (non condensing) and max 29°C DP
Operating/Nonoperating Shock[2]	5 Gs, half sine, 11ms / X/Y axis: +/- 12Gs, half sine, 11ms; Z-axis: 20Gs, half sine, 7ms
Operating/Nonoperating Vibration[3]	Random Vibration - 0.18gRMS, 10-500Hz, 30 min each axis / Random Vibration - Z-axis - 0.78gRMS, 5-200Hz, 30 mins; X/Y-axis - 0.25gRMS, 5-200Hz, 30 mins each
Sound Power	Sound Power <78 dBA at 27C ambient and nominal HDD workload. (NEBS)/Sound Pressure <85 dBA at 23C ambient and nominal HDD workload. (OSHA)
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 (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 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 | CNS 13438 Class A (Taiwan)
Immunity	EN 55024 (EU) | KN 24/KN 35 (S. Korea) | CISPR 24/CISPR35
Environmental Standards[4]	EU RoHS Directive (2011/65/EU) | EU WEEE Directive (2012/19/EU) | EU REACH Regulation (EC) No 1907/2006 | EU WFD (2008/98/EC) | EU POPs Regulation (EU) 2019/1021
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	Australia/New Zealand (RCM), Canada (cUL/ICES/NMB-003 Class A), China (CCC – PSU only), European Union (CE), Germany (GS), Japan (VCCI), South Korea (KC), Taiwan (BSMI), United States (FCC/UL), The Eurasian Economic Union (EAC)，India (BIS)

1 ASHRAE A3 compliant, 5°C to 40°C, drate 1°C per 175 m above 900 m, <=9W per drive power consumptions (extreme conditions), with all fan units functional, for current and future HDD generations upto (including)

Mozaic 4+.
2 Operating: 10 shocks in +/- X,Y axis, 10 shocks in +Z - 50 total shocks/Nonoperating Shock: 6 shocks in +/- XY axis (24 total shocks), 2 shocks Z-axis
3 Operating: Sine Sweep - Z-axis - 0.17g, 5-50Hz, 1 octave/minute, 25 up and 25 down; X/Y-axis - 0.12g, 5-50Hz, 1 octave/minute, 25 up and 25 down/
Non-operating Sine Sweep - Z-axis - 0.6g, 5-50Hz, 1 octave/minute, 25 up and 25 down; X/Y-axis - 0.3g, 5-50Hz, 1 octave/minute, 25 up and 25 down (Sine sweep are not pass/fail criteria and is used for engineering purposes.
4 For the full list of environmental standards, please contact your account manager or sales representative.

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