

Vantageo ES4U74

Flexible, Scalable, and Secure



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

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

Vantageo delivers comprehensive storage solutions for tomorrow's data demands. These ultra-dense SAS-4 JBOD systems combine next-generation drive readiness with an energy-efficient design, making them ideal for AI, edge computing, and sovereign data infrastructure.

Key Advantages

- **Industry-leading capacity** 3.2 PB in a single enclosure, engineered by Vantageo. 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, wattspers-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** Vantageo Secure™ component certificate. In-band via SES/outof-band management via Redfish. Compliance-ready for air-gapped and sovereign data deployments.

Technical details

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)
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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
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 Shock2	5 Gs, half sine, 11ms / X/Y axis: +/- 12Gs, half sine, 11ms; Z-axis: 20Gs, half sine, 7ms
Operating/Nonoperating Vibration3	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)

Recommended support

24x7 - 4 hours Response, Next Business Day Call to Resolution CTR
24x7 - 4 hours Response, 24 Hours Call to Resolution CTR
24x7 - 4 Hours Response, 6 Hours Call to Resolution CTR
Default support Next Business Day Consulting and deployment offerings are also available. Contact Vantageo representative for the more information.

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