

kStore Corvault is a multi-petabyte capacity block storage system that is self-healing and brings five-nines availability to storage infrastructure and data centre deployments. Corvault's breakthrough technology provides hyperscale efficiency, rapid deployment, and automatic hard drive renewal for less e-waste and operational costs.



Key Advantages

- **Hyperscale Efficiency:** Lower on-premise infrastructure costs with intelligent controllers, and multi-petabyte capacity built into Corvault.
- **Sustainability and Cost Savings:** kStore Corvault has built-in data management, reducing your data centre overhead, minimising carbon footprint and saving costs.
- **High Capacity Enclosures:** Maximum data densities for optimal infrastructure space utilisation.
- **Breakthrough Hard Drive Technology:** kStore Corvault uses Mozaic 3+ areal density technology, delivering more capacity for less power.
- **Superior Data Availability:** Provides five-nines data availability and durability needed to promote reliable data storage with redundant hardware and distributed erasure coding.
- **System Data Protection:** Protects data via Autonomic Distributed Allocation Protection Technology (ADAPT) for automatic uptime rebuilds without compromising performance, storage utilisation and availability.
- **Self-Healing Hard Drive:** Autonomous Drive Regeneration (ADR) minimises downtime, service intervention, and e-waste by renewing errant drives.
- **Simplicity:** Allows simple installation, configuration, and management with GUI, CLI and Redfish API.
- **Grouped Disk Performance:** Ensures continuous data access with responsive, low latency performance.
- **Maximum Security:** Self-encrypts data using Seagate Secure™ for maximum protection, reduced privacy concerns, and secure cryptographic erase.

Product Highlights

- Effortlessly deploy petabyte storage
- Lower TCO with maximum space utilisation
- The most-efficient petabyte-capacity block storage
- Minimise Infrastructure costs and reduce data centre carbon footprints
- Superior data availability, durability and performance
- Autonomic Distributed Allocation Protection Technology (ADAPT)
- Autonomous Drive Regeneration (ADR)
- Breakthrough Hard Drive

ABOUT KLOUDSTOR

With extensive experience in enterprise data protection and storage management, KloudStor focuses on serving and meeting the growing data needs of customers with innovative and highly scalable 'On-Premise as-a-Service' solutions. With a flexible pay-per-consumption monthly subscription model, we provide the best of on-premise performance and security with cloud flexibility.

KloudStor's fully managed solutions are supported by a team of highly skilled and experienced data management experts. Our partnerships with Quantum and Seagate, leading technology companies in the field of data storage and backup, enable us to provide proven, robust and trusted as-a-Service solutions for our customers ensuring that their operations and businesses are running continuously without compromise.

KloudStor

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TECHNICAL SPECIFICATIONS

| SPECIFICATIONS | | CORVAULT 4U106 |
|-------------------------------------|--|--|
| System Capacity (raw) | | 2.1 PB |
| Limited warranty | | 5 Years |
| System Performance | | 12 GB/s sequential read throughput, 10 GB/s sequential write throughput |
| Device Support | | Exos X20® self-encrypting SAS Hard Drives |
| System Data Protection | | ADAPT erasure coding |
| Disk Drive Self healing technology | | Autonomous Drive Regeneration (ADR) |
| Controllers | | Redundant, active-active, VelosCT Controllers |
| Hot-SwappableComponents | | Hard Drives, controllers, fans, power supplies, expander cards |
| Host I/O Ports | | Four mini-SAS-3 HD ports on each controller |
| Physical | | 4U: Height: 176.4 mm/6.94 in Width: 441 mm/17.36 in Depth: 1139 mm/44.84 in Weight: 131.5kg/290 lb |
| Management | | |
| Interface Types | | 10/100/1000 Ethernet |
| Management Consoles | | Web-based GUI or Command Line Interface (CLI) |
| Management Software | | Systems storage management console One-button configuration remote diagnostics non-disruptive updates |
| Power Requirements - AC Input | | |
| Input Power Requirements | | 200V-240V AC, 50 Hz - 60 Hz |
| Power Consumption | | Power supply max: 2000W Operational: 1400 -1800W (workload dependent) |
| Environmental/Temperature Ranges | | |
| Operating/Non-operating Temperature | | 5°C to 35°C (41°F to 95°F) / -40°C to +70°C (-40°F to +158°F) |
| Operating/Non-operating Humidity | | -12°C DP/10 to 80% / -12°C DP/5 to 100% |
| Operating/Non-operating Shock | | 3.0g, 11ms(per axis)/20.0g, 7ms, 10 shock pulses, ISTA3H |
| Operating/Non-operating Vibration | | 0.18Grms, 5 Hz to 500 Hz, 30 min per axis / 0.54Grms 6Hz to 200 Hz (ISTA 3E) |
| Standards/Approvals | | |
| Standard Marks/Approvals | | United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC), Russia, Mexico, Germany, South Korea, Taiwan, India |
| Safety Certifications | | UL 62368-1 CAN/CSA-C22.2 No.62368-1- 19 CE to EN 62368-1 CB IEC 62368-1 Power Supplies CCC & BIS |
| Emissions (EMC) | | FCC CFR 47 Part 15 Subpart B Class A ICES/NMB-003 Class A EN 55032:2015 Class A AS/NZS CISPR 22/CISPR 32 Class A VCCI Class A KN 32/KN 35 Class A CNS 15936 Class A |
| Harmonics & Flicker | | EN 61000-3-2 EN 61000-3-3 |
| Immunity | | EN 55032 KN 32/KN 35 |
| EnvironmentalStandards | | The RoHS Directive (2011/65/EU) The WEEE Directive (2012/19/EU) TheREACHDirective(EC) No.1907/2006and WFD Directive (EU) 2018/815 |
| Power Supply Units | | Commission Regulation (EU) 2019/424 (Directive 2009/125/EC) |
| Power Supply | | Redundant Ecodesign (Model 700-014575-0800) - Platinum Power Efficiency 230VAC50/Hz; 10% Load = >80%; 20% Load = >90%; 50% Load = >94%; 100% Load = >91% Power Factor Conditions (PFC) 50% Loading = >0.90 |
| Power Supply | | Ecodesign (Model SPASGAT-02) - Titanium Power Efficiency 230VAC50/Hz; 10% Load = >90%; 20% Load = >94%; 50% Load = >96%; 100% Load = >91% Power Factor Conditions (PFC) 50% Loading = >0.95 |

TECHNICAL SPECIFICATIONS

| SPECIFICATIONS | | CORVAULT 5U84 |
|-------------------------------------|--|--|
| System Capacity (raw) | | 1.68 PB |
| Limited warranty | | 5 Years |
| System Performance | | 12 GB/s sequential read throughput, 10 GB/s sequential write throughput |
| Device Support | | Exos X20® self-encrypting SAS HDDs |
| System Data Protection | | ADAPT erasure coding |
| Disk Drive Self healing technology | | Autonomous Drive Regeneration (ADR) |
| Controllers | | Redundant, active-active, VelosCT Controllers |
| Hot-SwappableComponents | | Hard Drives, controllers, fans, power supplies, expander cards |
| Host I/O Ports | | Four mini-SAS-3 HD ports on each controller |
| Physical | | 5U: Height: 222.3 mm/8.75 in Width: 444.5 mm/17.5 in Depth: 981 mm/38.63 in Weight: 135kg/298 lb |
| Management | | |
| Interface Types | | 10/100/1000 Ethernet |
| Management Consoles | | Web-based GUI or Command Line Interface (CLI) |
| Management Software | | Seagate Systems storage management console One-button configuration remote diagnostics non-disruptive updates |
| Power Requirements - AC Input | | |
| Input Power Requirements | | 200V-240V AC, 50 Hz - 60 Hz |
| Power Consumption | | Power supply max: 2200W operational: 1200 - 1400W (workload dependent) |
| Environmental/Temperature Ranges | | |
| Operating/Non-operating Temperature | | 5°C to 35°C (41°F to 95°F) / -40°C to +70°C (-40°F to +158°F) |
| Operating/Non-operating Humidity | | -12°C DP/10 to 80% / -12°C DP/5 to 100% |
| Operating/Non-operating Shock | | 3.0g, 11ms(per axis)/20.0g, 7ms, 10 shock pulses, ISTA3H |
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