kStore 4U106 EBOD

KloudStor kStore 4U106 EBOD is the datasphere's ideal platform for Storage expansion, supporting efficient growth, performance, and high capacity at an affordable price.

Product Highlights

- Scale your data centre with this very high density storage platform
- Minimise a data centre's footprint and power consumption while maximising storage space
- Eliminate efficiency-draining acoustic interference with the proprietary noise attenuator
- Maintain your data centre 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 Centres Fast** - Increase the amount of data that fits in a 4U rack by leveraging up to 106 of our high-capacity hard drives or solid-state drives in a single enclosure that holds an unprecedented capacity of business intelligence. With an overall maximum bandwidth of 36 GB/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 centre solutions with extremely high density and capacity, all with noteworthy reliability and performance.
- **Easy to Set Up, Maintain, and Expand** - This system's user-focused design reduces support calls and minimises 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 maximises airflow and minimises power consumption, while unique performance, efficiency, and scalability features provide an exceptionally low TCO.
- **Build In Security at the Foundation of the Data Life Cycle** - Protect your most valuable business assets with Seagate Secure™ data security features.
- **Reduce Power Consumption** - 80 PLUS Titanium and 80 PLUS Platinum power supply options with certified adaptive cooling technology.

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.

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TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Redundant Path	Yes (SAS only)
Host/Expansion I/O Ports	Four ×4 mini-SAS HD Expansion I/O connectors per I/O module
Management/Status Reporting	In-band SCSI Enclosure Services
Device Support	SAS and SATA device support, up to 2.5 PB raw capacity with 24 TB 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): 176.4 mm/6.95 in | Width (without ears and rails): 441 mm/17.4 in | Depth (with handles, without cables): 1139 mm/44.8 in | Weight 45 kg / 99 lb | Weight (with drives): 141 kg/310 lb1
Power Requirements	
Input Power Requirements	200VAC-240VAC, 50Hz/60Hz
Max Power Output per PSU	2000W
Environmental/Temperature Ranges	
Operating/Non-operating 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/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, Max rate of change (°C/hr): 5/20/5% to 100% non-condensing
Operating/Non-operating Shock	3 Gs, 11 ms (per axis) / 15 Gs, 7 ms, 10 shock pulse
Operating/Non-operating Vibration	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	
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 |
Emissions (EMC)	CB IEC 62368-1 | Power Supplies CCC & BIS
Harmonics & Flicker	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
Immunity	EN 61000-3-2 | EN 61000-3-3
Environmental Standards	EN 55032 | KN 32/KN 35
Power Supply Units	
Power Supply	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

1 Weight with drives includes CMA and rack rails, as well as 1.8 lb per drive.
2 Non-operating shock measured with 2 shocks per axis X, Y in positive and negative direction and 2 shocks in positive Z axis
3 Non-operating vibration measured with chassis mounted on test fixture for 4 hrs in each axis (ISTA 3E)