kStore 2U12 EBOD

KloudStor kStore 2U12 EBOD is the datasphere's ideal platform for Storage expansion, supporting efficient growth, performance, and high capacity at an affordable price.

Product Highlights

- Optimise space, leverage the latest drive technologies and capacities

- Safeguard data with intelligent fault diagnosis, resolution capabilities, persistent error logging, and monitoring

- Deliver data fast using hard drives, SSDs, or a combination of both

- Ensure data is available with N+1 PCMs, I/O modules, and dual data paths to all drives

- Maximum of 28.8 GB/s in a dual controller configuration

Key Advantages

- **Transfer Data Fast With a 12 Gb/s SAS Interface** - Get data to applications when and where it's needed with up to 12 Gb/s, yielding an effective maximum throughput of 14.4 GB/s in a single I/O module or 28.8 GB/s in a dual controller configuration. With an expansion capability up to 144 solid-state drives or hard drives, expand your capacity of business knowledge with no sacrifice in performance.

- **Deliver Versatile Architecture Built to Grow** - This flexible enclosure includes support and capabilities to manage cables, universal ports, configuration controls and standardized zoning. As a key building block of our modular systems — which make all critical components interchangeable regardless of size or budget — this enclosure's modularity makes it easy to set up, maintain, and expand via interchangeable FRUs and hot-swappable components.

- **Ensure Applications Have Access to Critical Data** - Safeguard your data with fault diagnosis, resolution capabilities, persistent error logging, and monitoring while ensuring maximum availability and harnessing high-availability features such as dual PCMs and I/O modules, as well as dual data paths to all drives.

- **Reduce Cost and Resources With Energy-Efficient Features** - This enclosure is suited for both high-capacity and transaction-dependent environments that demand tighter Service Level Agreement (SLA) requirements and need faster response times for optimal data availability. It meets stringent worldwide requirements for recycling and environmental friendliness, can help you minimise environmental impact, and recognise cost savings through high performance.

- **Reduce power consumption** - 80 PLUS Gold and 80 PLUS Platinum power supply options with certified adaptive cooling technology.

- **Build In Security at the Foundation of the Data Life Cycle** - Protect your most valuable business assets with guaranteed compatible Seagate Secure™ SSDs and hard drives.

SPECIFICATIONS	
Controller	Dual I/O modules per enclosure
Host/Expansion I/O Ports	Three universal ×4 12 Gb/s mini-SAS HD connectors (SFF-8644) per I/O module
Management/Status Reporting	CLI via RS232 and 100Base-T port SES via SAS SFF-8644 ports
Maximum System Configuration	Dual host-connected enclosure with a maximum expanded configuration of 12 enclosures for a total of 144 drives
Device Support	Dual-port 12 Gb/s and 6 Gb/s SAS drives
Max Drives Per Enclosure	12 (for a full list of supported drives, please contact your account or sales manager)
Hot-Swappable Components	Drives, power cooling modules (PCM), and SBB I/O modules
Physical	Height: 88.9 mm/3.5 in (2 EIA units) | Width: 483 mm/19 in (IEC rack compliant) | Depth: 630 mm/24.8 in | Weight: 26 kg/52.7 lb (with drives)
Power Requirements - AC Input	
Input Power Requirements	90VAC-264VAC, 50 Hz/60 Hz
Max Power Output per PSU	580W
Environmental/Temperature Ranges	
Operating/Non-operating Altitude	0 m to 3,000 m (0 ft to 10,000 ft)/–300 m to 12,192 m (–1,000 ft to 40,000 ft)
Operating/Non-operating Temperature	ASHRAE A3, 5°C to 40°C (41°F to 104°F), derate 1°C/175m 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 10% 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/15 Gs, 10ms, half sine pulses
Operating/Non-operating Vibration	0.21 Gs rms (5-500Hz) / 1.04 Gs rms (2-200Hz)
Power Supply Units	
Power Supply	Ecodesign (Part SP-PCM01-HE580-AC/Model FS580FS104G-XX) – Gold Power Efficiency 115VAC/60 Hz|230VAC/50 Hz Power Factor Condition 10% Load = >80% | >80% 10% Loading = N/A 20% Load = >87%|>88% 20% Loading = >0.90 50% Load = >90%|>92% 50% Loading = >0.90 100% Load = >87%|>88% 100% Loading = >0.95
Power Supply	Ecodesign (Part SP-PCM4-PT580-AC/Model SGT-S-0580ADU00) – Platinum Power Efficiency 115VAC/60 Hz|230VAC/50 Hz Power Factor Condition(PFC) 10% Load = >80% | >80% 10% Loading = N/A 20% Load = >90% | >90% 20% Loading = >0.90 50% Load = >92% | >94% 50% Loading = >0.95 100% Load = >89% | >91% 100% Loading = >0.95