keeper technology
access | manage | protect

keeperSAFE™ - Specifications

Protect your storage investment and allow your data system to evolve and grow

keeperSAFE™ is a purpose built, flexible cloudscale storage architecture. Bundled with Seagate's new highly secure and ultra-dense server platform, keeperSAFE perfects open-source software based storage technology, thus enabling an enterprise to intelligently scale storage infrastructure on demand. Its 1920TB capacity in a single 4U chassis leads the industry in space efficiency. Showcasing a unique cloud architecture, the highly compact appliance quickly consumes growing workloads without disruption . System health is easily monitored through a sophisticated single-pane-of-glass management interface. Engineered as a open and unified storage platform, keeperSAFE's Software Defined architecture affords customers forklift-free technology insertion.

Highlights of keeperSAFE... powered by SEAGATE

Space Efficient Footprint
- 1920TB Capacity in 4U Chassis
- Two storage nodes per 4U
- Independent Intel processor and connectivity per node

Data Resiliency and Protection
- Erasure Coding for durability and efficiency
- Integrated Real-Time data protection and integrity
- Snap-shots/Journaling
- Automatically isolates and minimizes component failures

Scalable and Elastic
- Uninterrupted scalability from petabytes to exabytes
- Bandwidth flexes as the system grows
- No controller bottleneck
- Objects at the core displace legacy infrastructures

Proactive Management GUI
- Data-point fusion for real-time monitoring
- Automatic, decentralized data look-up
- Unified GUI for hardware and software
- Self healing with SWARM enabled rebuild times

Future Proof Design
- Fueled by Open Source
- On-line technology modifications
- Non disruptive upgrades
- Proven hardware

Multiple Presentation Layers
- Native S3 API, Swift, Other REST(ful) Access
- NFS3, NFS4, OpenStack Manilla Access
- SMB1, SMB2, SMB3 Network Access
- RBD, OpenStack Cinder Block Access

Security
- FIPS 140-2 encryption at rest
- External Key Management Support (KMIP compliant)
- Secure, audited administrative actions
- Intra-system SSL Encrypted
- Extensive RBAC controls

Cost Effective
- Speedy non-disruptive consumption of workloads
- Expansion-ready Cloud based architecture
- Delivers savings operating on pennies/GB per year

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System Technical Specifications

Capacity per Storage Shelf:
– Raw Capacity: 1,920 TB (20TB Drive)
                       1,728 TB (18TB Drive)
                       1,536 TB (16TB Drive)
                       1,344 TB (14TB Drive)

Client Connectivity:
– 4 x 10 Gb Ethernet Internal
– 10/40 Gb; 25/100 Gb Ethernet External

Redundancy
– Hot-swappable disk drives
– 2 hot-swappable power supplies
– No single point of failure
– Non-disruptive online software upgrades

Data Protection and Security:
– Replication and erasure coding via storage policies
– FIPS 140-2 encryption at rest

kSAFE Control Nodes:
– Form Factor: 2U
– Admin Node (Min 1 Required)
– Monitor Node (Min 3 Required)
– Gateway Node (Optional)
– Interfaces: 2 x 10 Gb Ethernet
- Optional I/F: 2 x 40 Gb Ethernet
- Optional I/F: 2 x FDR IB
- Optional I/F: 2 x 25/100 Gb Ethernet

kSAFE Control Shelf Specs:
– Dimensions: 3.41"H x 17.06"W x 33.52"D
– Input Power: 100-240v (AC, 50/60 Hz)
– Weight (Max) : 94 lbs.

Storage Form Factor:
– 2 nodes per 4U rack mount chassis

Physical Characteristics:
– Dimensions: 6.95"H x17.4" W x 46.06"D
– Weight (Max): 309 lbs.

Power (Per Chassis):
– Voltage: 200-240v (4U)
– Power supply: 2x 3200W PSU
– Power Receptacles: 4 x C14

Temperature:
– Operating: 41 to 95 F (5 to 35 C)
– Non-Operating: -40 to 158 F (-40 to 70 C)

Relative Humidity:
– Operating: 10% to 80% Non-condensing
– Non-Operating: 5% to 90% Non-condensing

Altitude:
– Operating: 0 to 10,000 feet
– Non-Operating: -328 to 40,000 feet

Certifications, Marks and Approvals:
– Safety: UL 60950-1 (USA and Canada)
– Emissions (EMC): FCC CFR Part 15 Subpart B Class A (United States)
– Standard Marks/Approvals North America (FCC, UL, cUL, ICES/NMB-oo3 Class A)

Optional 2U Storage Shelves:
– 2U24 and/or 2U12:
– Dimensions: 3.5"H x 17.4"W x 24.8"D
– Weight (Max) : 53 lbs.
– Voltage: 100-240v