keeperSAFE^SN - Specifications

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

keeperSAFE^SN is a purpose built, flexible cloudscale storage architecture. Bundled with Seagate's new highly secure and ultra-dense storage platform, keeperSAFE enables an enterprise to intelligently scale storage infrastructure on demand. Its 2,120 TB capacity in a single 4U chassis leads the industry in space efficiency. Showcasing a tightly integrated turn-key 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 an open and unified storage platform, keeperSAFE's Software Defined architecture affords customers forklift-free technology insertion.

Highlights of keeperSAFE^SN

Powered by SEAGATE

Space Efficient Footprint
- 2,120 TB Capacity in 4U Chassis
- Redundant Storage Nodes
- Independent Intel processor and connectivity per node

Data Resiliency and Protection
- Erasure Coding for durability and efficiency
- Integrated Real-Time data protection and integrity
- 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 ADAPT/APR

Future Proof Design
- On-line technology modifications
- Non disruptive upgrades
- Proven hardware

Quantum StorNext Integration
- Fast-access SDISK operations
- Includes StorNext Data Mover licenses
- High-performance: Cost-effective
- Easy operation and administration

Security
- FIPS 140-2 encryption at rest
- External Key Management Support (KMIP compliant)
- Secure, audited administrative actions

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

kSAFE^{SN} Components:
– Data Mover Nodes
- 1u Server
– Storage Shelves
- 4u Storage capacity

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

Data Protection and Security:
– Autonomic Distributed Allocation Protection Technology (ADAPT)
– Erasure Coding and RAID 1/5/6
– FIPS 140-2 encryption at rest
– Autonomous Drive Regeneration (ADR)

Key Management
– Works with 3rd Party Enterprise Key Management Solutions

Data Mover Node Physical Specs:
– Dimensions: 1.68"H x 18.97"W x 32.39"D
– Weight (Max) : 46.7 lbs

Data Mover Node Power:
– Voltage: 100-240v AC, 50/60 Hz
– Power Supply: 2 x 1100 W
– Power Receptacles: 2 x C14

Connectivity per Data Node:
– 2 x 10/25 Gb Ethernet
– 2 x 16/32 Gb FC
– Optional 40/100 Gb Ethernet

Storage Form Factor:
– 4U rack mount chassis

Capacity per Storage Shelf:
– Raw Capacity: 2,160 TB (20TB Drive)
   1,908 TB (18TB Drive)
   1,696 TB (16TB Drive)
   1,484 TB (14TB Drive)

Storage Shelf Physical Specs:
– Dimensions: 6.94"H x 17.36"W x 44.84"D
– Weight (Max): 290 lbs.

Storage Shelf Power:
– Voltage: 200-240V AC,50Hz-60Hz
– Power supply: 2 x 2000W
– Power Receptacles: 2 x C20

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)