

SEPATON S2100-ES2 DATA PROTECTION PLATFORM

Industry's Most Efficient Enterprise Data Protection

Massive single system scalability powers the industry's most efficient data protection platform, reducing complexity and cost in the data center. The new S2100[®]-ES2 Series 2910 platform delivers grid scalability of both performance and capacity, the industry's fastest performance, multi-protocol support, high-reliability, and industry-leading deduplication.

MASSIVE SCALE-OUT ARCHITECTURE

Built on our powerful DeltaScale™ architecture, the S2100 platform lets you scale performance and capacity independently for “pay as you grow” cost savings.

- Deploy 2-8 SEPATON replication engine (SRE[®]) processing nodes to achieve industry-leading performance of up to 43.2 TB/hour.
- Add capacity simply by adding disk shelves.
- Designed for simple management, the S2100 brings added performance or storage on-line, configures devices to the optimal settings, and load balances without operator intervention.
- Pre-cabled cabinets for non-disruptive expansion.
- 1 or 2 TB SATA drives and hardware compression optimize physical storage capacity. Single system capacity scales from 12 TB to 1.6 PB (before deduplication).

INDUSTRY'S FASTEST PERFORMANCE

- Patented technology coupled with 64-bit processing delivers performance of up to 1500 MB/sec/node.
- Improved power efficiency, dynamic power management, and flexible 2U form factor.
- Back up, deduplicate, and replicate massive data volumes faster, reduce backup windows.

- Meet restore SLAs and/or RPO/RTOs with unparalleled scalability to eliminate system sprawl.

SCALABLE DEDUPLICATION

- The S2100's DeltaStor[®] software delivers global deduplication of massive data volumes without slowing performance.
- Scales processing across multiple processing nodes.
- Unmatched control. Choose data to be deduplicated by type and source.

MULTIPROTOCOL SUPPORT

- Supports Symantec NetBackup OpenStorage (OST) on 10 Gb Ethernet concurrently with Fibre Channel tape emulation.
- Eliminates many technology and platform migration issues for enterprise customers.

CLOUD ENABLING STORAGE POOLING

The S2100's storage pooling feature allows data managers to create discrete storage environments (pools) within a single appliance and to assign each pool its own disk type, deduplication configuration, replication priority, backup policies, and backup application.

- Enables non-disruptive, phased technology migrations.
- Ensures optimal system utilization and administrative ease.

- Secure multi-tenancy and charge-back support private cloud infrastructures.
- Manage data from multiple business units or departments in a single secure appliance.
- Provides accurate measurement and forecasting of capacity and processing needs for budgeting.

SECURE ERASURE OPTION

- Licensed option delivers guaranteed, auditable erasure of data on virtual tape cartridges.
- National Institute of Standards and Technology (NIST)-approved data over-write pattern.
- Auditable proof of destruction is automatically emailed for each cartridge.
- Saves media costs and enables a greener data center.

MANAGEMENT AND REPORTING

Patented SEPATON ContentAware™ technology delivers the industry's most powerful monitoring and reporting capability.

Delivers information needed to maintain operational efficiency, identify strategies for cost savings, plan for capacity needs, meet regulatory requirements, and deliver optimal levels of service.

BANDWIDTH OPTIMIZED REPLICATION

DeltaRemote™ software delivers fast, cost-effective replication of large data volumes by transmitting only new data.

DeltaRemote software delivers:

- Up to 97 percent bandwidth reduction
- Use the S2100-ES2 as a target or source for replication in existing SEPATON environments.
- Combine with storage pools to prioritize replication to meet quality of service requirements.

HIGH RELIABILITY DESIGN

The S2100-ES2 is designed for high availability with features that include:

- SATA RAID 6-based Hitachi Data Systems enterprise-class storage with hot spare disks
- Redundant control and data paths with dual battery backup
- Redundant, internally mirrored drives protect critical software
- Real-time 24x7 platform monitoring and diagnostics and automated alerts.
- 99.999 percent data availability

The S2100 cabinet is also designed for enterprise-class reliability and scalability incorporating a fully redundant infrastructure, including power distribution units, Ethernet switches, Fibre Channel switches, lights-out management, and pre-cabling for non-disruptive expansion.

SEPATON S2100-ES2 Specifications		
Performance	Minimum: one SRE [®] node per appliance - up to 1500 MB/sec. Maximum: up to eight SRE nodes - up to 12,000 MB/sec.	
Physical Capacity	(Usable) Minimum: 12 TB, maximum: 1.6 PB	
Host Interfaces	4 Gb Fibre Channel, 4-32 per system for FC ports or 2-16 per system for 10 Gb Ethernet	
Virtual Devices	Maximum: 192 per node; 8 nodes, 1536 virtual devices per appliance.	
Virtual Cartridges	Maximum: 64,000	
Cabinet Characteristics	Base (2TB drives)	Expansion (2TB drives)
Usable Physical Capacity	Maximum: 192 TB	Maximum: 312 TB Full Expansion (without nodes or Gb E switches): 312TB Expansion (with nodes or Gb E switches): 216TB
Dimensions (in.)	80 H X 24 W X 40 D	80 H X 24 W X 40 D
Weight	Minimum: base unit with 1 array 546.5 lbs. (247.7 kg) Maximum: 1505 lbs (682.7 kg.) is less than 1700 lbs. (772.7 kg)	
Power Requirements	US, Canada	Europe, Asia
Input Voltage (VAC +/- 10%)	208 VAC - 3 phase, max 35A/phase (3P+PE)	220/230 VAC - 3 phase, 16A/phase (3P+N+PE)
Frequency	47/63 Hz	63/47 Hz
Input Power Connections (2 per cabinet)	Wellshin WS-267 plug, 250V-50A, 10 ft. cord (requires Wellshin WS-291 connector)	IEC 309 plug, 230-16A, 1 M cord
Max. Power Consumption	4844 W (base) 4802 W (expansion)	
Main Circuit Protection	Min 3-pole, 40 A circuit breaker required; max 50 A 3-pole breaker	
Environmental Operating Ranges		
Humidity	10-80% non-condensing	
Temperature	10-35 degrees (C)	
Altitude	Maximum: 10,000 ft. (3050 m)	
Vibration	.25 G @ 3 Hz - 20 Hz for 15 minutes	
Shock	1 shock up to 20 G for 2 msec.	
Certifications	FCC Part 15, CE (EN55022, EN55024), VCCI, AS/NZS (CISPR 22); CSA 60950, CE (EN60950); ISO 9001; RoHS	
Tape Library Emulation ADIC Scalar 1000, ADIC Scalar 10K, ADIC Scalar 24, Generic SCSI, HP ESL Series, HP MSL Series, HP Autoloader 1/8, IBM 3584, Quantum/ATL P1000, Quantum/ATL P3000, Quantum/ATL P4000, Quantum/ATL P7000, StorageTek L180, StorageTek L700		
Tape Drive Emulations HP Ultrium LTO-1, HP Ultrium LTO-2, HP Ultrium LTO-3, HP Ultrium LTO-4, IBM 3590, IBM 3592, IBM Ultrium LTO-1, IBM Ultrium LTO-2, IBM Ultrium LTO-3, IBM Ultrium LTO-4, Quantum DLT-7000, Quantum DLT-8000, Quantum SDLT-1, Quantum SuperDLT 320, Sony AIT-2, Sony AIT-3, StorageTek T9840, StorageTek T9940		