

# SEPATON S2100-ES2

## Virtual Tape Library Products

Reduce risk and improve the operational efficiency of your data center with the SEPATON S2100-ES2 Series 1000 virtual tape library (VTL) – the fastest, simplest and most scalable backup and recovery solution in the industry. The S2100-ES2 enables you to consolidate storage, back up more data in less time, and keep more data online longer. Built with the unique SEPATON ContentAware™ architecture, S2100-ES2 appliances can be added to any backup environment without disruption or policy changes.

### Cut Backup and Restore Times

The S2100-ES2 is optimized to deliver the performance enterprises need to protect up to 1.6 petabytes of useable data and stay within shrinking backup windows. The S2100-ES2 can backup and restore data through any port, providing performance of up to 34.5 TB/hour – three times faster than any other VTL.

### Reduce Capacity Requirements

Reduce power consumption and data center footprint by storing more data in less space. The S2100-ES2 is equipped with hardware compression to deliver double or triple its physical storage capacity without requiring additional disk space or slowing performance. Add DeltaStor™ data deduplication software to store up to 50 times more data (with compression) in the same space.

Advanced thin provisioning enables you to create as many virtual cartridges as you want without needing a commensurate amount of physical storage. Configure up to 192 virtual devices per node as either a virtual library or a virtual tape drive (up to 3072 per system) for maximum throughput. Configure up to 5.3 million virtual tape cartridges per appliance. The S2100-ES2 monitors the disk capacity that is actually used and alerts administrators when additional physical capacity is needed.

### Scale to Handle Data Growth

The S2100-ES2 features a unique grid design that lets you add performance and capacity as your data grows without over-provisioning. You can start with a single Scalable Replication Engine (SRE®) processing node and add as many as 15 more to scale performance up to 9600 MB/second. Scale a single appliance from 10 TB to more than 1.6 PB of physical capacity simply by adding disk. The S2100-ES2 automatically discovers, formats, and adds new storage without end-user involvement.

### Simplify Complexity

From implementation and configuration to ongoing management, The S2100-ES2 was designed for simplicity. It emulates all leading physical tape libraries and tape formats and works with a wide range of backup applications for seamless integration into your existing environment. It also accommodates mixed server/application environments and both open systems and mainframe infrastructures.

The ES2100-ES2 cuts administration time with advanced automation of all storage provisioning and performance optimization. An intuitive management console automatically brings added storage on-line, configures the devices to their optimal settings and incorporates it into the VTL cluster.



The enterprise-class S2100-ES2 delivers performance of up to 9600 MB/sec and 1.6 PB of physical capacity.

### Add Advanced Features

The unique SEPATON ContentAware™ architecture enables you to add advanced features and functionality simply and cost-effectively by adding one of our powerful software applications:

- DeltaStor software delivers up to 50:1\* data deduplication (with compression) to cut costs by up to 97 percent. Reducing the number of disks also improves overall reliability of your infrastructure.
- Site<sup>2</sup>™ software adds secure off-site electronic vaulting to eliminate the risks of physical tape loss.

### High Availability Protection

The S2100-ES2 is designed with a wide range of redundant high availability features, including:

- SATA RAID 6-based storage
- Redundant control and data paths
- Redundant hot swappable power
- Redundant cooling.

The SEPATON VTL software is also protected by redundant, internally mirrored drives.

\*Compression and deduplication results vary with data type and backup methodologies used.

### SEPATON S2100-ES2 Series 1000 Specifications

<b>Performance</b>	Minimum: 600 MB/sec., maximum: 9600 MB/sec.	
<b>Physical Capacity Usable</b>	Minimum: 10 TB, maximum: 1.6 PB	
<b>Host Interface</b>	4 Gb Fibre Channel, 1-32 per system	
<b>Virtual Devices</b> (Minimum: one SRE node per appliance)	Maximum: 192 per SRE node; 16 SRE nodes, 3072 virtual devices per appliance.	
<b>Virtual Cartridges</b>	Maximum: 5.3 million	
<b>Applications</b>	DeltaStor, Site <sup>2</sup>	
<b>Cabinet Characteristics</b>	<b>Base</b>	<b>Expansion</b>
<b>Usable Physical Capacity</b>	Maximum: 120 TB	Maximum: 160 TB
<b>Dimensions (in.)</b>	80 H X 24 W X 40 D	80 H X 24 W X 40 D
<b>Weight</b>	Base unit with 1 array: 530 lbs. (241 kg)	
<b>Power Requirements</b>	<b>US, Canada, Korea</b>	<b>Europe, Asia</b>
<b>Input Voltage (VAC +/- 10%)</b>	120/208 VAC - 3 phase, 20A/phase (3P+PE)	230/400 VAC - 3 phase, 16A/phase (3P+N+PE)
<b>Frequency</b>	47/63 Hz	47/63 Hz
<b>Input Power Connections</b> (2 per cabinet for redundancy)	Hubbell CS8365C plug, 250V-50A, 10 ft. cord	IEC 309 plug, 230-16A, 0.91 m cord
<b>Maximum Power Consumption</b> (Continuous for fully configured cabinet)	6900 W base 4640 W (expansion)	
<b>Environmental Operating Ranges</b>		
<b>Humidity</b>	10-80% non-condensing	
<b>Temperature</b>	10-35 degrees (C)	
<b>Altitude</b>	Maximum: 10,000 ft. (3050 m)	
<b>Vibration</b>	.25 G @ 3 Hz - 20 Hz for 15 minutes	
<b>Shock</b>	1 shock up to 20 G for 2 msec.	
<b>Certifications</b>	FCC Part 15, CE (EN55022, EN55024), VCCI, AS/NZS (CISPR 22); CSA 60950, CE (EN60950); ISO 9001, ISO 14001; RoHS	
<b>Tape Library Emulation</b>		
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		
<b>Tape Drive Emulations</b>		
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		

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