

Featuring grid-scalable performance and capacity, Hitachi Protection Platform S2750 delivers enterprise-class data protection. This easy-to-deploy appliance lets you back up, deduplicate, replicate, encrypt and restore massive data volumes faster and more efficiently than other solutions in the industry.

Hitachi Protection Platform S2750

For Faster Backups

With faster performance than other purpose-built backup appliances in the industry, Hitachi Protection Platform S2750 enables administrators to meet backup windows. It helps them restore service level agreements (SLAs) and meet recovery objectives with ease. Built for speed, the S2750 delivers backup performance of up to 80TB per hour, regardless of data type, data change rate or capacity utilization. With this appliance, enterprises can protect petabytes of data well within the most stringent backup windows.

And Even Faster Restores

Unique delta-differencing deduplication technology in Hitachi Protection Platform maintains a full copy of the most recent backup and uses it as the baseline for deduplicating data in older backups. As a result, the most frequently used files are always available for immediate restores. Without the burden of reassembly, Protection Platform S2750 can restore data at industry-leading rates.

Pay-as-You-Grow Grid Scalability

Hitachi Protection Platform S2750 is able to scale deduplication processing across multiple processing nodes for fast,

efficient capacity reclamation. The unique grid architecture enables it to scale performance and capacity independently, simply by adding processing nodes or disk shelves as needed. It lets you buy what you need today and add performance and capacity in convenient, cost-saving increments as your business grows. You can start with a single processing node or scale out to eight processing nodes working together to deliver backup performance of up to 80TB/hour and usable capacity (before deduplication) up to 8PB by simply adding disk shelves.

Powerful and Selective Deduplication

Hitachi Protection Platform S2750 is one of the industry's most powerful deduplication solutions. This appliance not only eliminates the need to store massive data volumes on multiple systems, but it also performs deduplication across all nodes and disk shelves for maximum reduction. In addition, Protection Platform S2750 enables you to select the data you want to deduplicate by application, backup server or backup software. You can also tune deduplication by data type for optimal efficiency and to keep more data online longer, for faster restores, more data accessibility, and the ability to meet challenging SLAs.

Multiprotocol Support

Protection Platform S2750 supports all leading backup applications, such as Veritas NetBackup, IBM® Tivoli® Storage Manager, EMC NetWorker or HP Data Protector. The appliance uses both virtual tape library (VTL) tape emulation and/or Veritas NetBackup OpenStorage (OST) on 8Gb Fibre Channel and/or 1Gb and 10Gb Ethernet.

Plug-and-Play Installation and Easy Administration

Hitachi Protection Platform S2750 is not just a bundle of components. It is a truly integrated solution of server, storage and deduplication software that makes it easy to deploy and integrate into existing backup environments. It requires minimal changes to existing policies, practices and procedures. Plus, it requires no client or host agents to be installed and is qualified with leading enterprise backup applications. Protection Platform also features a powerful management console that provides IT administrators with detailed information and reporting capabilities. It gives users a single interface for monitoring and managing backup, deduplication, replication and capacity utilization to simplify management and capacity planning activities.



Hitachi
Protection
Platform



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HITACHI PROTECTION PLATFORM S2750 SPECIFICATIONS

Performance	Minimum: 1 node per appliance — up to 10TB/hour Maximum: up to 8 server nodes — up to 80TB/hour	
Physical Capacity (Useable)	Minimum: 48TB, Maximum: 8PB	
Host Interfaces	Fibre Channel (FC): 4 x 16Gb FC, 2 x 16Gb FC to storage Gigabit Ethernet (GbE): 4 x 10GbE ports <i>OR</i> 4 x 1GbE ports	
Host Protocols	Virtual Tape Library; NetBackup OST over Ethernet	
Virtual Devices	Maximum: 192 per node; 8 nodes, 1536 virtual devices per appliance	
Virtual Cartridges	16,000 per LUN	
Compression	2 Exar DX1845 accelerator cards per node	
Encryption	Advanced Encryption Standard (AES) 256 EKMs Supported: RSA DPM, Thales e-Security keyAuthority 4.0	
Cabinet Characteristics	Base	Expansion (Each Rack)
Maximum Capacity	<ul style="list-style-type: none"> ■ Raw: 864 TB ■ Usable: 785TB ■ 8 nodes with FC and GbE switches ■ Hitachi Virtual Storage Platform with 3 DB60 Trays and 6TB drives 	<ul style="list-style-type: none"> ■ Raw: 3240TB ■ Usable: 2357TB ■ Without nodes or switches ■ 8 DB60 Trays and 6TB drives
Dimensions (H x W x D)	79" x 24" x 47"	2008mm x 600mm x 1201mm
Weight	Minimum: base unit with 1 node, FC and Ethernet switches with 1 storage array; 1036.3 lbs. (470.1 kg) Maximum: 1436.3 lbs (651.5 kg)	
Power Requirements	US, Canada	Europe, Asia
Input Voltage (VAC +/- 10%):		
3 Phase	208VAC - 3x 30A	400VAC max. 3x 32A
1 Phase	208VAC 30A	230VAC max. 32A
Frequency	47/63 Hz	47/63 Hz
Input Power Connections:		
3 Phase (2 per cabinet)	NEMA L15-30P 4P (4-wire, 3-pole)	IEC60309 RED, 3P+N+E
1 Phase (4 per cabinet)	NEMA L6-30P	IEC60309 BLUE, 2P+E
Power Consumption	Maximum: 7819 W (base) 2107 W (expansion)	
Environmental Operating Ranges		
Humidity	10-80% noncondensing	
Temperature	50-75 degrees (F), 10-25 degrees (C)	
Altitude	Maximum: 10,000 ft (3050 m)	
Vibration	.25G @ 3Hz - 20 Hz for 15 minutes	
Shock	1 shock up to 20G for 2msec.	
Tape Library/Drive Emulation		
Tape Library Emulation	ADIC Scalar 1000, ADIC Scalar 10K, ADIC Scalar 24, Generic SCSI, HP ESL Series, HP MS 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-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	

