

Hitachi Thunder 9520V™ Workgroup Modular Storage

The Thunder 9520V™ workgroup modular storage system offers best-of-class scalability and performance. This compact anchor for Application Optimized Storage™ solutions more than holds its own for consolidation of multiple Microsoft Windows servers—or any other deployment of a quick and easy storage area network (SAN). The Thunder 9520V system is also ideal for archival storage in tiered environments.

Ease into Your First SAN or Archive

Are you a small to mid-sized business with escalating demands for trouble-free storage? In other words, are you a growing company that needs an easy-to-manage SAN—fast? Or, is your IT operations group looking to add Hitachi storage optimized for nearline data, tamperproof archiving, or remote deployment? If so, the Thunder 9520V system is for you.

With Hitachi, Affordability Doesn't Mean Reduced Quality

You'll find that Thunder 9520V workgroup modular storage is *unique in the level of scalability and performance it delivers within its class.*

Greater capacity (up to 19.7TB raw), less fuss. The Thunder 9520V system scales higher than its competitors and supports as many as 512 LUNs—granularity that's essential for growing businesses and enterprises that seek an archival solution. It also provides diskless boot for all servers attached to your SAN.

Fastest in category. At 4.2GB/sec of cached bandwidth, the Thunder 9520V system brings you greater performance than its competitors.

Unmatched data availability and protection. You get the same enhanced Serial ATA data protection available for the high end of the Hitachi Thunder 9500™ V Series. Plus, our Hi-Track® “call home” service/remote

maintenance tool provides 24/7 diagnostics to keep potential issues from becoming problems. The system's fully redundant components are hot-swappable to keep your Thunder 9520V system online.

The Thunder 9520V System as Your Introduction to Hitachi Storage

- :: Anchor an easy-to-manage SAN optimized for Microsoft Office, Oracle-based collaborative applications, Web serving, and other "cannot go down" applications
- :: Gain the efficiency and higher utilization that comes from managing storage as a single pool

- :: Simplify backup without downtime or network congestion
- :: Handle rapid data growth without hiccups

The Thunder 9520V System as an Extension of Your Existing Hitachi SANs

- :: Manage remote Thunder 9520V systems with the desired mix of local administrative autonomy or centralized efficiency and control
- :: Enjoy seamless compatibility with other tiers of Hitachi storage under Hitachi Storage Area Management (SAM) Suite software

Thunder 9520V Storage System Specifications

Physical Characteristics

Command/expansion modules	
Maximum number of expansion modules (SATA only)	3
Back-end connectivity (FC/AL, 2Gbit/sec)	4
Maximum number of disk drives	59
Raw capacity	19.7TB
RAID-1 (mirror) capacity	9.85TB
RAID-5 capacity	18.4TB
Cache size (GB) maximum per system	2
Controllers	1 or 2

Disk Drives Supported (all 2Gbit/sec)

146GB 10,000RPM	Base drives*
250GB 7,200RPM	SATA drives
400GB 7,200RPM	SATA drives

Host Ports

Maximum virtual ports	512
Maximum physical ports (Autodetect 1, 2Gbit/sec)	4
Maximum hosts per port	128
Host Storage Domains	
SAN enabled	

LUNs

RAID-1, RAID-1+0	
RAID-5 (3-16 disk drives with floating parity)	
Maximum number of RAID groups	45
Maximum number of LUNs	512
LUN Management (free format LUN size, LUN expansion, LUN deletion)	

* Base drives are unique to the Thunder 9520V systems and are not available for any other Thunder 9500 V Series system.

High Availability

All FRU parts redundant and hot-swappable	
Continuous disk background checks	
Maximum hot spares	15
Cache battery backup	
UPS battery	optional
LAN maintenance connections	2 per controller
Hitachi Dynamic Link Manager™ (path manager software)	optional
VERITAS DMP	supported
Most other failover software	supported
Hi-Track®	

Software

Resource Manager™	included
ShadowImage™ In-System Replication	optional
Copy-on-Write Snapshot (formerly QuickShadow)	optional
Data Retention Utility (formerly Open LDEV Guard)	optional
HiCommand® Device Manager	optional
Performance Monitor	optional

Operating Systems Supported

Microsoft Windows NT
Microsoft Windows 2000
Microsoft Windows Server 2003
Sun Solaris
HP-UX
IBM AIX
Red Hat Linux
SuSE Linux
TurboLinux
HP OpenVMS
HP Tru64 UNIX
Novell NetWare
SGI IRIX
NetApp® Data ONTAP (with HDS-NetApp Enterprise NAS Gateway)
Mac OSX

Note: All capacities are based on
1GB = 1,000,000,000 bytes
One TB = 1000GB

© Hitachi Data Systems Corporation

Corporate Headquarters

750 Central Expressway
Santa Clara, California 95050-2627
U.S.A.

Phone: 1 408 970 1000

www.hds.com
info@hds.com

Asia Pacific and Americas

750 Central Expressway
Santa Clara, California 95050-2627
U.S.A.

Phone: 1 408 970 1000

info@hds.com

Europe Headquarters

Sefton Park
Stoke Poges
Buckinghamshire SL2 4HD
United Kingdom

Phone: +44 (0) 1753 618000

info.eu@hds.com

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