

PRODUCT LINE CARD

HITACHI VIRTUAL STORAGE PLATFORM G SERIES FAMILY MATRIX

	Hitachi Virtual Storage Platform G200	Hitachi Virtual Storage Platform G400	Hitachi Virtual Storage Platform G600	Hitachi Virtual Storage Platform G800	Hitachi Virtual Storage Platform G1500
Capacity Specifications					
Maximum (Max.) Number of Hard Drives, Including Spares	264 SFF 252 LFF	480 SFF 480 LFF	720 SFF 720 LFF	1,440 SFF 1,440 LFF	2,304 SFF 1,152 LFF
Max. Number of Flash Drives, Including Spares	264 SSD 84 FMD	480 SSD 192 FMD	720 SSD 288 FMD	1,440 SSD 576 FMD	2,304 SSD 576 FMD
Raw Capacity	2,520TB (10TB 3.5") 475TB (1.8TB 2.5") 1,176TB (14TB FMD) 1,003TB (3.8TB SSD)	4,800TB (10TB 3.5") 864TB (1.8TB 2.5") 2,688TB (14TB FMD) 1,824TB (3.8TB SSD)	7,200TB (10TB 3.5") 1,296TB (1.8TB 2.5") 4,032TB (14TB FMD) 2,736TB (3.8 TB SSD)	14,440TB (10TB 3.5") 2,592TB (1.8TB 2.5") 8,064TB (14TB FMD) 5,472TB (3.8TB SSD)	6,912TB (6TB 3.5') 4,147TB (1.8TB 2.5") 8,064TB (14TB FMD) 8,755TB (3.8TB SSD)
Flash Drive Options	14TB FMD 7TB FMD 3.5TB FMD 1.75TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 980GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 1.75TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 980GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 1.75TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 980GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 1.75TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 980GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 1.7TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 980GB 2.5" SSD

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Capacity Specifications (continued)					
Max. Standard Expansion Trays	7 (2U: 12 LFF) 7 (2U: 24 SFF/SSD)	16 (2U: 12 LFF) 16 (2U: 24 SFF/SSD)	24 (2U: 12 LFF) 24 (2U: 24 SFF/SSD)	48 (2U: 12 LFF) 48 (2U: 24 SFF/SSD)	12 (16U: 96 LFF) 12 (16U: 192 SFF/SSD)
Max. High Density Expansion Trays	4 (4U: 60 LFF/SFF)	8 (4U: 60 LFF/SFF)	12 (4U: 60 LFF/SFF)	24 (4U: 60 LFF/SFF)	N/A
Max. Flash Module Expansion Trays	7 (2U: 12 FMD)	16 (2U: 12 FMD)	24 (2U: 12 FMD)	48 (2U: 12 FMD)	12 (8U: 48 FMD)
Controller Tray Specifications					
Height Width Depth	2U, 3.4" (86mm) 19" (446mm) 30" (760mm)	4U, 6.9" (175mm) 19" (446mm) 34" (865mm)	4U, 6.9" (175mm) 19" (446mm) 34" (865mm)	4U, 6.9" (175mm) 19" (446mm) 34.1" (866mm)	10U, 17.5" (445mm) 19" (480mm) 48.6" (1235mm)
Weight With Disks Installed	24 SFF disks: 126 lbs. (57kg) 12 LFF disks: 134.5 lbs. (61kg)	187.4 lbs. (85kg)	187.4 lbs. (85kg)	187.4 lbs. (85kg)	312 lbs. (142kg)
Internal Drive Slots	12 LFF or 24 SFF	0	0	0	0
Host Interface Types	FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 8Gb/s, 16 Gb/s IBM® FICON®: 8Gb/s, 16Gb/s FCoE: 10Gb/s iSCSI: 10Gb/s
Host Port Counts (Max. without drives)	16 x FC 8 x iSCSI	64 x FC 32 x iSCSI	64 x FC 32 x iSCSI	80 x FC 40 x iSCSI	192 x FC 176 x FICON 176 x FCoE 88 x iSCSI
Fibre Bandwidth to Host	12,800MB/s	32,000MB/s	32,000MB/s	51,200MB/s	256,000MB/s
Back-End Disk Interface	12Gb/s SAS	12Gb/s SAS	12Gb/s SAS	12Gb/s SAS	6Gb/s SAS

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Controller Tray Specifications (continued)

Bandwidth to Drives	12,000MB/s; 12Gb/s SAS links, 8 per system	24,000MB/s; 12Gb/s SAS links, 16 per system	24,000MB/s; 12Gb/s SAS links, 16 per system	96,000MB/s; 12Gb/s SAS links, 64 per system	128,00MB/s; 8 back-end directors; 6Gb/s SAS links, 128 total
Max. Cache	64GB	128GB	256GB	512GB	2TB

Software Specifications

RAID Supported	RAID-1, RAID-5, RAID-6	RAID-1, RAID-5, RAID-6	RAID-1, RAID-5, RAID-6	RAID-1, RAID-5, RAID-6	RAID-1, RAID-5, RAID-6
Data-at-Rest Encryption	Yes	Yes	Yes	Yes	Yes
Max. LUN Size	256TB	256TB	256TB	256TB	256TB
Max. Number of LUNs	2,048	4,096	4,096	16,384	65,280
Max. Number of Snapshots	1,024 per LUN; 100,000 per system	1,024 per LUN; 100,000 per system	1,024 per LUN; 100,000 per system	1024 per LUN;100,000 per system	1,024 per LUN; 100,000 per system
Max. Number of Hosts per Fibre Channel Port	255	255	255	255	255

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NAS Module Specifications

Each VSP G400, VSP G600, and VSP G800 can be ordered with two factory installed NAS Modules.

Dimensions	Each NAS module is 13" (33cm) x 10" (16cm)	Each NAS module is 13" (33cm) x 10" (16cm)	Each NAS module is 13" (33cm) x 10" (16cm)
Modules per Cluster	Two NAS modules internal to each VSP G400	Two NAS modules internal to each VSP G600	Two NAS modules internal to each VSP G800
Weight	2 lbs (.9 kg) each NAS module	2 lbs (.9 kg) each NAS module	2 lbs (.9 kg) each NAS module
Main Board Memory	96GB (8GB NVRAM) per NAS module	96GB (8GB NVRAM) per NAS module	96GB (8GB NVRAM) per NAS module
Number of VLANs	256	256	256
Protocols	NFS, SMB, FTP, iSCSI and HTTP to the cloud	NFS, SMB, FTP, iSCSI and HTTP to the cloud	NFS, SMB, FTP, iSCSI and HTTP to the cloud
10Gb/s Client Ports per NAS module	6	6	6
Throughput (Read, Mix, Write)	3GB/s, 2.7GB/s, 1.5GB/s	4GB/s, 3.1GB/s, 2GB/s	8.4GB/s, 5.1GB/s, 3.1GB/s
Max. Number of IP Addresses per Cluster	256	256	256
Max. Number of IP Addresses per EVS	32	32	32
Max. Number of EVS (Enterprise Virtual Servers)	64	64	64
Max. Number of File Systems	512	512	512
Max. Number of File Systems per Span	32 ¹	32 ¹	32 ¹
Max. File System Size	1PB	1PB	1PB
Max. Number of Files per Directory	16M	16M	16M
Max. File Size	256TB	256TB	256TB
Max. Snapshots	1,024 per file system	1,024 per file system	1,024 per file system
Number of Global Symlinks	10,000	10,000	10,000
Max. Number of CNS Links	500	500	500

	Hitachi Virtual Storage Platform G400	Hitachi Virtual Storage Platform G600	Hitachi Virtual Storage Platform G800
NAS Module Specifications (Continued)			
Max. Number of Mount Points (Shares and Exports)	20,000 shares, 10,000 exports. Note: Maximum tested configurations are: a) 10k exports with 10k shares, or b) 5k exports with 20k shares		
Max. Number of Concurrent NFS and/or SMB Clients	64,000	64,000	64,000
Max. Number of Virtual Volumes	100,000	100,000	100,000
Max. Number of User or Group Quotas	100,000	100,000	100,000
Max. Number of Concurrent Open Files: SMB	1,178,000	1,500,000	1,500,000
Max. NAS SD/LUN size	64TB	64TB	64TB
Max. Number of NAS LUNs	512	512	512

Notes:
(1) Systems that have >32 file systems per span prior to SVOS7/NAS13 code upgrade will be grandfathered and any upgrade to SVOS7/NAS13 will be supported. However, from that point forward, the system will not allow >32 file systems to be created on an individual span.

1MB = 1,048,576 bytes
SFF = small form factor, LFF = large form factor, SAS = serial attached SCSI, HDD = hard disk drive, SSD = solid state disk, SATA = serial advanced technology attachment, MLC = multilevel cell, FMD = flash module drive, FC = Fibre Channel, FCoE = Fibre Channel over Ethernet, CNS = cluster namespace, NVRAM = nonvolatile random access memory, VLAN = virtual local area network, EVS = Enterprise Virtual Servers, SMB = Server Message Block, NFS = Network File System

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