

**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
<b>Capacity Specifications</b>					
<b>Maximum (Max.) Number of Hard Drives, Including Spares</b>	264 SFF 252 LFF	480 SFF 480 LFF	720 SFF 720 LFF	1,440 SFF 1,440 LFF	2,304 SFF 1,152 LFF
<b>Max. Number of Flash Drives, Including Spares</b>	264 SSD 84 FMD	480 SSD 192 FMD	720 SSD 288 FMD	1,440 SSD 576 FMD	384 SSD 576 FMD
<b>Max. Raw Internal Capacity</b>	2,467TB (10TB LFF HDD) 456TB (1.8TB SFF HDD) 1,351TB (14TB FMD) 726TB (3.8TB SSD)	4,699TB (10TB LFF HDD) 830TB (1.8TB SFF HDD) 2,702TB (14TB FMD) 1,452TB (3.8TB SSD)	7,049TB (10TB LFF HDD) 1,245TB (1.8TB SFF HDD) 4,053TB (14TB FMD) 2,178TB (3.8TB SSD)	14,098TB (10TB LFF HDD) 2,490 (1.8TB SFF HDD) 8,106TB (14TB FMD) 4,356TB (3.8TB SSD)	6,767TB (6TB LFF HDD) 3,984TB (1.8TB SFF HDD) 8,106TB (14TB FMD) 1,452TB (3.8TB SSD)
<b>Flash Drive Options</b>	14TB FMD 7TB FMD 3.5TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 960GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 960GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 960GB 2.5" SSD 480GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 960GB 2.5" SSD 400GB 2.5" SSD 200GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 960GB 2.5" SSD

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<b>Capacity Specifications (continued)</b>					
<b>SAS Hard Drive Options</b>	10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 4TB (3.5" 7.2K) 1.8TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K) 600GB (2.5" 15K) 300GB (2.5" 15K)	10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 4TB (3.5" 7.2K) 1.8TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K) 600GB (2.5" 15K) 300GB (2.5" 15K)	10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 4TB (3.5" 7.2K) 1.8TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K) 600GB (2.5" 15K) 300GB (2.5" 15K)	10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 4TB (3.5" 7.2K) 1.8TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K) 600GB (2.5" 15K) 300GB (2.5" 15K)	6TB (3.5" 7.2K) 4TB (3.5" 7.2K) 1.8TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K) 600GB (2.5" 15K)
<b>Max. Standard Expansion Trays</b>	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) 2 (16U: 192 SSD)
<b>Max. High Density Expansion Trays</b>	4 (4U: 60 LFF/SFF)	8 (4U: 60 LFF/SFF)	12 (4U: 60 LFF/SFF)	24 (4U: 60 LFF/SFF)	N/A
<b>Max. Flash Module Expansion Trays</b>	7 (2U: 12 FMD)	16 (2U: 12 FMD)	24 (2U: 12 FMD)	48 (2U: 12 FMD)	12 (8U: 48 FMD)
<b>Controller Tray Specifications</b>					
<b>Height Width Depth</b>	2U, 3.5" (88mm) 19" (483mm) 32" (813mm)	4U, 6.9" (174mm) 19" (483mm) 35" (892mm)	4U, 6.9" (174mm) 19" (483mm) 35" (892mm)	4U, 6.9" (174mm) 19" (483mm) 35" (892mm)	10U, 17.2" (436mm) 18" (445mm) 32" (823mm)
<b>Weight (VSP G200 includes weight with disks installed)</b>	24 SFF disks: 59 lbs. (27kg) 12 LFF disks: 60 lbs. (27kg)	100 lbs. (45kg)	108 lbs. (49kg)	109 lbs. (49kg)	339 lbs. (154kg)
<b>Internal Drive Slots</b>	12 LFF or 24 SFF	0	0	0	0
<b>Host Interface Types</b>	FC: 32Gb/s FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s FC: 8Gb/s iSCSI: 10Gb/s	FC: 16Gb/s FC: 8Gb/s IBM® FICON®: 16Gb/s IBM® FICON®: 8Gb/s FCoE: 10Gb/s iSCSI: 10Gb/s
<b>Host Port Counts (Max. without drives)</b>	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 192 x FCoE 96 x iSCSI
<b>Fibre Bandwidth to Host</b>	51,200MB/s	204,800MB/s	204,800MB/s	256,000MB/s	307,200MB/s

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<b>Controller Tray Specifications (continued)</b>					
<b>Back-End Disk Interface and Links</b>	8 x 12Gb/s SAS	16 x 12Gb/s SAS	16 x 12Gb/s SAS	64 x 12Gb/s SAS	128 x 6Gb/s SAS
<b>Max. Cache</b>	64GB	128GB	256GB	512GB	2TB
<b>Software Specifications</b>					
<b>RAID Supported</b>	RAID-1+0, RAID-5, RAID-6	RAID-1+0, RAID-5, RAID-6	RAID-1+0, RAID-5, RAID-6	RAID-1+0, RAID-5, RAID-6	RAID-1+0, RAID-5, RAID-6
<b>Data-at-Rest Encryption</b>	Yes	Yes	Yes	Yes	Yes
<b>Max. LUN Size</b>	256TB	256TB	256TB	256TB	256TB
<b>Max. Number of LUNs</b>	2,048	4,096	4,096	16,384	65,280
<b>Max. Number of Snapshots</b>	1,024 per LUN; 100,000 per system	1,024 per LUN; 100,000 per system	1,024 per LUN; 100,000 per system	1,024 per LUN; 100,000 per system	1,024 per LUN; 1,000,000 per system
<b>Max. Number of Hosts per Fibre Channel Port</b>	255	255	255	255	255

Hitachi Virtual  
Storage Platform  
G400

Hitachi Virtual  
Storage Platform  
G600

Hitachi Virtual Storage  
Platform G800

**NAS Module Specifications**

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

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

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