

HITACHI VIRTUAL STORAGE PLATFORM F SERIES FAMILY MATRIX

	Hitachi Virtual Storage Platform F400	Hitachi Virtual Storage Platform F600	Hitachi Virtual Storage Platform F800	Hitachi Virtual Storage Platform F1500
Capacity Specifications				
Max. Number of Flash Drives, Including Spares	192 FMD 384 SSD	288 FMD 576 SSD	576 FMD 1,152 SSD	576 FMD 384 SSD
Max. Raw Internal Capacity	2,702TB (14TB FMD) 1,452TB (3.8TB SSD)	4,053TB (14TB FMD) 2,178TB (3.8TB SSD)	8,106TB (14TB FMD) 4,356TB (3.8TB SSD)	8,106TB (14TB FMD) 1,452TB (3.8TB SSD)
FlashPack Upgrades (sold in 4 drive increments)	4 x 14TB FMD 4 x 7TB FMD 4 x 3.5TB FMD 4 x 3.8TB SSD 4 x 1.9TB SSD	4 x 14TB FMD 4 x 7TB FMD 4 x 3.5TB FMD 4 x 3.8TB SSD 4 x 1.9TB SSD	4 x 14TB FMD 4 x 7TB FMD 4 x 3.5TB FMD 4 x 3.8TB SSD 4 x 1.9TB SSD	4 x 14TB FMD 4 x 7TB FMD 4 x 3.5TB FMD 4 x 3.8TB SSD 4 x 1.9TB SSD
Max. Flash Expansion Trays	16 (2U: 12 FMD) 16 (2U: 24 SSD)	24 (2U: 12 FMD) 24 (2U: 24 SSD)	48 (2U: 12 FMD) 48 (2U: 24 SSD)	12 (8U: 48 FMD) 2 (16U: 192 SSD)

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Controller Tray Specifications

Height Width Depth	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)
Weight	100 lbs. (45kg)	108 lbs. (49kg)	109 lbs. (49kg)	339 lbs. (154kg)
Host Interface Types	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
Host Port Counts	56 x FC 28 x iSCSI	56 x FC 28 x iSCSI	64 x FC 32 x iSCSI	176 x FC 176 x FICON 176 x FCoE 88 x iSCSI
Back-End Disk Interface and Links	16 x 12Gb/s SAS	16 x 12Gb/s SAS	64 x 12Gb/s SAS	128 x 6Gb/s SAS
Max. Cache	128GB	256GB	512GB	2TB

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Software Specifications

RAID Supported	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
Data-at-Rest Encryption	Yes	Yes	Yes	Yes
Max. LUN Size	256TB	256TB	256TB	256TB
Max. Number of LUNs	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	1024 per LUN; 100,000 per system	1,024 per LUN; 1,000,000 per system
Max. Number of Hosts per Fibre Channel Port	255	255	255	255

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Hitachi Virtual Storage
Platform F800

NAS Module Specifications

Each VSP F400, VSP F600 and VSP F800 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 F400	Two NAS modules internal to each VSP F600	Two NAS modules internal to each VSP F800
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	64	64	64
Max. Number of File Systems	500	500	500
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

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NAS Module Specifications (continued)			
Each VSP F400, VSP F600 and VSP F800 can be ordered with two factory installed NAS modules.			
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
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 Hitachi Storage Virtualization Operating Systems (SVOS) 7 or NAS13 code upgrade will be grandfathered and any upgrade to SVOS 7 or 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

SAS = serial attached SCSI, 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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LC-028-C MA July 2017