

PRODUCT LINE CARD

HITACHI VIRTUAL STORAGE PLATFORM G SERIES FAMILY MATRIX

	Hitachi Virtual Storage Platform G350	Hitachi Virtual Storage Platform G370	Hitachi Virtual Storage Platform G700	Hitachi Virtual Storage Platform G900
Capacity Specifications				
Performance (IOPS)	600K	1.2M	1.4M	2.4M
Max. Raw Internal Capacity	3,454TB (14TB LFF HDD) 442TB (2.4TB SFF HDD) 5,778TB (30TB SSD)	5,098TB (14TB LFF HDD) 664TB (2.4TB SFF HDD) 8,667TB (30TB SSD)	16.4PB (14TB LFF HDD) 1.9PB (2.4TB SFF HDD) 6.0PB (14TB FMD) 26.0PB (30TB SSD)	19.7PB (14TB LFF HDD) 2.6PB (2.4TB SFF HDD) 8.1PB (14TB FMD) 34.6PB (30TB SSD)
Total Efficiency Guarantee Ratio *	Up to 7:1	Up to 7:1	Up to 7:1	Up to 7:1
Host Port Counts (Max. without drives)	16 x FC 8 x iSCSI	16 x FC 8 x iSCSI	64 x FC 32 x iSCSI	80 x FC 40 x iSCSI
Value Added Bundled Features	100% Data Availability Guarantee Storage Virtualization In System Replication Copy Management Dynamic Tiering Infrastructure Analytics	100% Data Availability Guarantee Storage Virtualization In System Replication Copy Management Dynamic Tiering Infrastructure Analytics	100% Data Availability Guarantee Storage Virtualization In System Replication Copy Management Dynamic Tiering Infrastructure Analytics	100% Data Availability Guarantee Storage Virtualization In System Replication Copy Management Dynamic Tiering Infrastructure Analytics

	Non-disruptive Migration Total Efficiency Guarantee	Non-disruptive Migration Total Efficiency Guarantee	Non-disruptive Migration Total Efficiency Guarantee	Non-disruptive Migration Total Efficiency Guarantee
Performance (Bandwidth)	9GB/s	12 GB/s	24 GB/s	41 GB/s
Max. Raw External Capacity	72PB	144PB	216PB	287PB
Maximum (Max.) Number of Hard Drives, Including Spares	192 SFF HDD 252 LFF HDD	288 SFF HDD 372 LFF HDD	864 SFF HDD 1,200 LFF HDD	1,152 SFF HDD 1,440 LFF HDD
Max. Number of Flash Drives, Including Spares	192 SSD	288 SSD	864 SSD 432 FMD	1,152 SSD 576 FMD
Flash Drive Options	30TB 2.5" SSD 15TB 2.5" SSD 7.6TB 2.5" SSD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 480GB 2.5" SSD	30TB 2.5" SSD 15TB 2.5" SSD 7.6TB 2.5" SSD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 480GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 30TB 2.5" SSD 15TB 2.5" SSD 7.6TB 2.5" SSD 3.8TB 2.5" SSD 1.9TB 2.5" SSD 480GB 2.5" SSD	14TB FMD 7TB FMD 3.5TB FMD 30TB 2.5" SSD 15TB 2.5" SSD 7.6TB 2.5" SSD 3.8TB 2.5" SSD 1.9TB 2.5" SSD

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Capacity Specifications (continued)					
SAS Hard Drive Options	14TB (3.5" 7.2K) 10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 2.4TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K)	14TB (3.5" 7.2K) 10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 2.4TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K)	14TB (3.5" 7.2K) 10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 2.4TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K)	14TB (3.5" 7.2K) 10TB (3.5" 7.2K) 6TB (3.5" 7.2K) 2.4TB (2.5" 10K) 1.2TB (2.5" 10K) 600GB (2.5" 10K)	
Max. Standard Expansion Trays	7 (2U: 12 LFF HDD) 7 (2U: 24 SFF HDD/SSD)	11 (2U: 12 LFF HDD) 11 (2U: 24 SFF HDD/SSD)	36 (2U: 12 LFF HDD) 36 (2U: 24 SFF HDD/SSD) 36 (2U: 12 FMD)	48 (2U: 12 LFF HDD) 48 (2U: 24 SFF HDD/SSD) 48 (2U: 12 FMD)	
Max. High Density Expansion Trays	4 (4U: 60 LFF/SFF HDD)	6 (4U: 60 LFF/SFF HDD)	20 (4U: 60 LFF/SFF HDD)	24 (4U: 60 LFF/SFF HDD)	
Controller Tray Specifications					
Height Width Depth	2U, 3.5" (88mm) 19.0" (483mm) 32.0" (813mm)	2U, 3.5" (88mm) 19.0" (483mm) 32.0" (813mm)	4U, 6.9" (174mm) 19.0" (483mm) 31.8" (808mm)	4U, 6.9" (174mm) 19" (483mm) 31.8" (808mm)	
Max. Weight (VSP G350 and G370 includes weight with disks installed)	24 SFF disks: 101 lbs. (46kg) 12 LFF disks: 101 lbs. (46kg)	24 SFF disks: 101 lbs. (46kg) 12 LFF disks: 101 lbs. (46kg)	165 lbs. (75kg)	165 lbs. (75kg)	
Internal Drive Slots	12 LFF or 24 SFF	12 LFF or 24 SFF	0	0	
Host Interface Types	FC: 32Gb/s FC: 16Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s iSCSI: 10Gb/s	FC: 32Gb/s FC: 16Gb/s iSCSI: 10Gb/s	
Fibre Bandwidth to Host	51,200MB/s	51,200MB/s	204,800MB/s	256,000MB/s	
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Controller Tray Specifications (continued)					
Back-End Disk Interface and Links	8 x 12Gb/s SAS	8 x 12Gb/s SAS	32 x 12Gb/s SAS	64 x 12Gb/s SAS	
Max. Cache	128GiB	256GiB	512GiB	1024GiB	
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	
Data-at-Rest Encryption	Yes	Yes	Yes	Yes	
Max. LUN Size	256TB	256TB	256TB	256TB	
Max. Number of LUNs	16,384	32,768	49,152	65,280	
Max. Number of Snapshots	1,024 per LUN; 262,144 per system	1,024 per LUN; 524,288 per system	1,024 per LUN; 786,432 per system	1,024 per LUN; 1,048,575 per system	
Max. Number of Hosts per Fibre Channel Port	255	255	255	255	

Notes:

* The Total Efficiency Guarantee of up to 7:1 for the VSP G350, G370, G700 and G900 models, when configured entirely with flash drives, covers savings from data de-duplication, compression, thin provisioning and snapshots.

**RAID-1 selection mirrors blocks across two drives and then creates a striped set across multiple drive pairs. This is commonly referred to as RAID 1+0.

1MB = 1,000,000 bytes

1MiB = 1,048,576 bytes

SFF = small form factor, LFF = large form factor

SAS = serial attached SCSI, HDD = hard disk drive, SSD = solid state disk, FMD = flash module drive

FC = Fibre Channel, iSCSI = Internet Small Computer Systems Interface, FCoE = Fibre Channel over Ethernet, FICON = Fibre Connection

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LC-020-H BTD July 2020

