

Product Specification

Hitachi Virtual Storage Platform 5000 Series Family Matrix

	5200	5200H	5600	5600H
Performance (IOPS)	5.1M		33M	
Performance (Latency)	as low as 39µs			
Performance (Bandwidth)	52GB/s		312GB/s	
MAX. Raw Internal Capacity	23.1PB (30TB SSD)		69.3PB (30TB SSD)	
MAX. Raw External Capacity	287PB			
Data Availability	100% Guaranteed			
Data Reduction	Compression Accelerator Module			
Effective Capacity	4:1			
Data-at-Rest Encryption for NVMe and SAS	YES			
MAX. Number of Drives, Including Spares	33 NVMe SCM 96 NVMe 768 SFF SSD	33 NVMe SCM 96 NVMe 768 SFF SSD/HDD 384 LFF HDD	99 NVMe SCM 288 NVMe 2,304 SFF SSD	99 NVMe SCM 288 NVMe 2,304 SFF SSD/HDD 1,152 LFF HDD
Drive Pack Upgrades (Sold in Packages of 4 Drives)	375GB NVMe SCM 60TB NVMe SSD 15TB NVMe SSD 7.6TB NVMe SSD 3.8TB NVMe SSD 1.9TB NVMe SSD 30TB SAS SSD 15TB SAS SSD 7.6TB SAS SSD 3.8TB SAS SSD 1.9TB SAS SSD	375GB NVMe SCM 60TB NVMe SSD 15TB NVMe SSD 7.6TB NVMe SSD 3.8TB NVMe SSD 1.9TB NVMe SSD 30TB SAS SSD 15TB SAS SSD 7.6TB SAS SSD 3.8TB SAS SSD 1.9TB SAS SSD 2.4TB 10K SAS HDD 14TB 7.2K SAS HDD 18TB 7.2K SAS HDD	375GB NVMe SCM 60TB NVMe SSD 15TB NVMe SSD 7.6TB NVMe SSD 3.8TB NVMe SSD 1.9TB NVMe SSD 30TB SAS SSD 15TB SAS SSD 7.6TB SAS SSD 3.8TB SAS SSD 1.9TB SAS SSD	375GB NVMe SCM 60TB NVMe SSD 15TB NVMe SSD 7.6TB NVMe SSD 3.8TB NVMe SSD 1.9TB NVMe SSD 30TB SAS SSD 15TB SAS SSD 7.6TB SAS SSD 3.8TB SAS SSD 1.9TB SAS SSD 2.4TB 10K SAS HDD 14TB 7.2K SAS HDD 18TB 7.2K SAS HDD
Max. Flash Media Trays (Sold in Packages of 4)	4x NVMe SSD 32x SAS SSD		12x NVMe SSD 96x SAS SSD	
Max. HDD Media Trays (Sold in Packages of 8)	N/A	32x 10K SAS HDD 32x 7.2K SAS HDD	N/A	96x 10K SAS HDD 96x 7.2K SAS HDD
No. Controller Blocks	1		1, 2 or 3	
Nodes Per System	2		2, 4, 6	
No. Controllers Per System	2		4, 8, 12	
Hitachi Accelerated Fabric	2x Node Interconnect Switch			
Controller Interconnectivity	4x Fabric Acceleration Modules		8, 16, 24x Fabric Acceleration Modules	
Node Dimensions: Height Width Depth	4U, 6.9" (174mm) 17.6" (446mm) 30.1" (763mm)			
Max. Weight per Block	342 lbs. (155kg)	343 lbs. (155kg)	397 lbs. (180kg)	398 lbs. (180kg)

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Host Interface Types	FC-NVMe: 32Gb/s FC: 16Gb/s FC: 32Gb/s IBM® FICON®: 16Gb/s IBM® FICON®: 32Gb/s IBM® FICON® (with EDIF): 32Gb/s iSCSI: 10Gb/s			
MAX HOST Port Count	32 x FC-NVMe 32 x FC 32 x FICON 16 x iSCSI			
Max Fibre Bandwidth to Host	102.4GB/s		614.4GB/s	
Back-end Disk Interface and Links	32 x SAS or NVMe	32 x SAS or NVMe	192 x SAS and NVMe	192 x SAS and NVMe
Max. Cache	1TiB		2TiB: 1x Controller Block 4TiB: 2x Controller Block 6TiB: 3x Controller Block	
RAID Supported	RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P)			
MAX. LUN Size	256TB			
MAX. Number of LUNS	65,280			
MAX. Number of Snapshots	1,024 per LUN; 1,048,575 per system			
MAX. Number of Hosts per Fibre Channel Port	255			
Guarantees and SLAs	Cyber Resilience Guarantee Sustainability SLA Guarantee Performance SLA Guarantee 100% Data Availability Guarantee Effective Capacity Guarantee Modern Storage Assurance			
Value Added Features	Storage Virtualization In System Replication Copy Management Infrastructure Analytics Non-disruptive Migration			

*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.

1TB = 1,000,000,000,000 bytes

LFF = large form factor

NVMe = non-volatile memory express

HDD = hard disk drive

1TiB = 1,099,511,627,776 bytes

SCM = storage class memory

SSD = solid state drive

FC = Fibre Channel

SFF = small form factor

SAS = serial attached SCSI

FMD = flash module drive

iSCSI = internet small computer systems interface

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