

PRODUCT LINE CARD
HITACHI VIRTUAL STORAGE PLATFORM 5000 SERIES FAMILY MATRIX

	VIRTUAL STORAGE PLATFORM 5200	VIRTUAL STORAGE PLATFORM 5200H	VIRTUAL STORAGE PLATFORM 5600	VIRTUAL STORAGE PLATFORM 5600H
Capacity Specifications				
Performance (IOPS)	5.1M	5.1M	33M	33M
Performance (Latency)	as low as 39µ	as low as 39µ	as low as 39µ	as low as 39µ
Performance (Bandwidth)	52GB/s	52GB/s	312GB/s	312GB/s
MAX. Raw Internal Capacity	23.1PB (30TB SSD)	23.1PB (30TB SSD)	69.3PB (30TB SSD)	69.3PB (30TB SSD)
MAX. Raw External Capacity	287PB	287PB	287PB	287PB
Data Availability	100% Guaranteed	100% Guaranteed	100% Guaranteed	100% Guaranteed
Data Reduction	Compression Accelerator Module	Compression Accelerator Module	Compression Accelerator Module	Compression Accelerator Module
Effective Capacity	4:1	4:1	4:1	4:1
Data-at-Rest Encryption for NVMe and SAS	YES	YES	YES	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 30TB 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 30TB 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	375GB NVMe SCM 30TB 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 30TB 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
Max. Flash Media Trays (Sold in Packages of 4)	4x NVMe SSD 32x SAS SSD	4x NVMe SSD 32x SAS SSD	12x NVMe SSD 96x 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	1,2 or 3	1,2 or 3
Nodes Per System	2	2	2,4,6	2,4,6
No. Controllers Per System	2	2	4,8,12	4,8,12
Hitachi Accelerated Fabric	2x Node Interconnect Switch	2x Node Interconnect Switch	2x Node Interconnect Switch	2x Node Interconnect Switch
Controller Interconnectivity	4x Fabric Acceleration Modules	4x Fabric Acceleration Modules	8,16,24x Fabric Acceleration Modules	8,16,24x Fabric Acceleration Modules
Node Dimensions				
Height	4U, 6.9" (174mm)	4U, 6.9" (174mm)	4U, 6.9" (174mm)	4U, 6.9" (174mm)
Width	17.6" (446mm)	17.6" (446mm)	17.6" (446mm)	17.6" (446mm)
Depth	30.1" (763mm)	30.1" (763mm)	30.1" (763mm)	30.1" (763mm)
Max. Weight per Block	342 lbs. (155kg)	343 lbs. (155kg)	397 lbs. (180kg)	398 lbs. (180kg)
Host Interface Types	FC-NVMe: 32Gb/s FC: 16Gb/s FC: 32Gb/s IBM® FICON®: 16Gb/s iSCSI: 10Gb/s	FC-NVMe: 32Gb/s FC: 16Gb/s FC: 32Gb/s IBM® FICON®: 16Gb/s iSCSI: 10Gb/s	FC-NVMe: 32Gb/s FC: 16Gb/s FC: 32Gb/s IBM® FICON®: 16Gb/s iSCSI: 10Gb/s	FC-NVMe: 32Gb/s FC: 16Gb/s FC: 32Gb/s IBM® FICON®: 16Gb/s iSCSI: 10Gb/s
MAX HOST Port Count	32 x FC-NVMe 32 x FC 32 x FICON 16 x iSCSI	32 x FC-NVMe 32 x FC 32 x FICON 16 x iSCSI	192 x FC-NVMe 192 x FC 192 x FICON 96 x iSCSI	192 x FC-NVMe 192 x FC 192 x FICON 96 x iSCSI
Max Fibre Bandwidth to Host	102.4GB/s	102.4GB/s	614.4GB/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	1TiB	2TiB: 1x Controller Block 4TiB: 2x Controller Block 6TiB: 3x Controller Block	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)	RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P)	RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P)	RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P)
MAX. LUN Size	256TB	256TB	256TB	256TB
MAX. Number of LUNS	65,280	65,280	65,280	65,280
MAX. Number of Snapshots	1,024 per LUN; 1,048,575 per system	1,024 per LUN; 1,048,575 per system	1,024 per LUN; 1,048,575 per system	1,024 per LUN; 1,048,575 per system
MAX. Number of Hosts per Fibre Channel Port	255	255	255	255
VALUE ADDED FEATURES	Storage Virtualization In System Replication Copy Management Infrastructure Analytics Non-disruptive Migration 100% Data Availability Guarantee Total Efficiency Guarantee Modern Storage Assurance	Storage Virtualization In System Replication Copy Management Infrastructure Analytics Non-disruptive Migration 100% Data Availability Guarantee Total Efficiency Guarantee Modern Storage Assurance	Storage Virtualization In System Replication Copy Management Infrastructure Analytics Non-disruptive Migration 100% Data Availability Guarantee Total Efficiency Guarantee Modern Storage Assurance	Storage Virtualization In System Replication Copy Management Infrastructure Analytics Non-disruptive Migration 100% Data Availability Guarantee Total Efficiency Guarantee Modern Storage Assurance

*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

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

SFF = small form factor, LFF = large form factor

SCM = storage class memory, SAS = serial attached SCSI, NVMe = non-volatile memory express, SSD = solid state drive, FMD = flash module drive, HDD = hard disk drive, FC = Fibre Channel, iSCSI = internet small computer systems interface