

PRODUCT SPECS

Hitachi Virtual Storage Platform 5000 Series Family Matrix

	5200	5200H	5600	5600H
Performance (IOPS)	5.1M	5.1M	33M	33M
Performance (Latency)	as low as 39µs	as low as 39µs	as low as 39µs	as low as 39µs
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	<ul style="list-style-type: none"> • 33 NVMe SCM • 96 NVMe • 768 SFF SSD 	<ul style="list-style-type: none"> • 33 NVMe SCM • 96 NVMe • 768 SFF SSD/HDD • 384 LFF HDD 	<ul style="list-style-type: none"> • 99 NVMe SCM • 288 NVMe • 2,304 SFF SSD 	<ul style="list-style-type: none"> • 99 NVMe SCM • 288 NVMe • 2,304 SFF SSD/HDD • 1,152 LFF HDD
Drive Pack Upgrades (Sold in Packages of 4 Drives)	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 • 18TB 7.2K SAS HDD 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 • 18TB 7.2K SAS HDD
Max. Flash Media Trays (Sold in Packages of 4)	<ul style="list-style-type: none"> • 4x NVMe SSD • 32x SAS SSD 	<ul style="list-style-type: none"> • 4x NVMe SSD • 32x SAS SSD 	<ul style="list-style-type: none"> • 12x NVMe SSD • 96x SAS SSD 	<ul style="list-style-type: none"> • 12x NVMe SSD • 96x SAS SSD
Max. HDD Media Trays (Sold in Packages of 8)	N/A	<ul style="list-style-type: none"> • 32x 10K SAS HDD • 32x 7.2K SAS HDD 	N/A	<ul style="list-style-type: none"> • 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 Width Depth	<ul style="list-style-type: none"> • 4U, 6.9" (174mm) • 17.6" (446mm) • 30.1" (763mm) 	<ul style="list-style-type: none"> • 4U, 6.9" (174mm) • 17.6" (446mm) • 30.1" (763mm) 	<ul style="list-style-type: none"> • 4U, 6.9" (174mm) • 17.6" (446mm) • 30.1" (763mm) 	<ul style="list-style-type: none"> • 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)

	5200	5200H	5600	5600H
Host Interface Types	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 32 x FC-NVMe 32 x FC 32 x FICON 32 x FICON (with EDiF) 16 x iSCSI 	<ul style="list-style-type: none"> 32 x FC-NVMe 32 x FC 32 x FICON 32 x FICON (with EDiF) 16 x iSCSI 	<ul style="list-style-type: none"> 192 x FC-NVMe 192 x FC 192 x FICON 192 x FICON (with EDiF) 96 x iSCSI 	<ul style="list-style-type: none"> 192 x FC-NVMe 192 x FC 192 x FICON 192 x FICON (with EDiF) 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	<ul style="list-style-type: none"> 2TiB: 1x Controller Block 4TiB: 2x Controller Block 6TiB: 3x Controller Block 	<ul style="list-style-type: none"> 2TiB: 1x Controller Block 4TiB: 2x Controller Block 6TiB: 3x Controller Block
RAID Supported	<ul style="list-style-type: none"> RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P) 	<ul style="list-style-type: none"> RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P) 	<ul style="list-style-type: none"> RAID-1* (2D+2D/4D+4D) RAID-5 (3D+1P/7D+1P) RAID-6 (6D+2P/14D+2P) 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 1,024 per LUN; 1,048,575 per system 	<ul style="list-style-type: none"> 1,024 per LUN; 1,048,575 per system 	<ul style="list-style-type: none"> 1,024 per LUN; 1,048,575 per system 	<ul style="list-style-type: none"> 1,024 per LUN; 1,048,575 per system
MAX. Number of Hosts per Fibre Channel Port	255	255	255	255

*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

EDiF = encryption of data in flight



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