

Hitachi Storage Platform Matrix



	Hitachi Adaptable Modular Storage 2100	Hitachi Adaptable Modular Storage 2300	Hitachi Adaptable Modular Storage 2500	Hitachi Adaptable Modular Storage 2500DC	Hitachi Universal Storage Platform® VM	Hitachi Universal Storage Platform® V	Hitachi Virtual Storage Platform
Raw Capacity	313TB (2TB SATA or SAS) 78TB (600GB SAS) 3TB (200GB SSD)	472TB (2TB SATA or SAS) 138TB (600GB SAS) 3TB (200GB SSD)	944TB (2TB SATA or SAS) 276TB (600GB SAS) 6TB (200GB SSD)	472TB (1TB SATA) 210TB (450GB SAS)	138.3TB (600GB FC) 472TB (2TB SATA) 13TB (400GB SSD)	664TB (600GB FC) 2,269TB (2TB SATA) 51TB (400GB SSD)	1,180TB (600GB 2.5" SAS) 2,521TB (2TB 3.5" SATA) 102TB (400GB SSD)
Flash Drive Options	200GB	200GB	200GB	NA	200GB 400GB	200GB 400GB	200GB 2.5" 400GB 3.5"
Hard Disk Drive (HDD) Technology Options	300GB SAS (15K RPM) 450GB SAS (15K RPM) 600GB SAS (15K RPM) 2TB SAS (7,200 RPM) 1TB SATA II (7,200 RPM) 2TB SATA II (7,200 RPM)	300GB SAS (15K RPM) 450GB SAS (15K RPM) 600GB SAS (15K RPM) 2TB SAS (7,200 RPM) 1TB SATA II (7,200 RPM) 2TB SATA II (7,200 RPM)	300GB SAS (15K RPM) 450GB SAS (15K RPM) 600GB SAS (15K RPM) 2TB SAS (7,200 RPM) 1TB SATA II (7,200 RPM) 2TB SATA II (7,200 RPM)	300GB SAS (15K RPM) 450GB SAS (15K RPM) 1TB SATA II (7,200 RPM)	300GB FC (15K RPM) 450GB FC (15K RPM) 600GB FC (15K RPM) 2TB SATA II (7,200 RPM)	300GB FC (15K RPM) 450 GB FC (15K RPM) 600GB FC (15K RPM) 2TB SATA II (7,200 RPM)	146GB SAS (2.5" 15K RPM) 300GB SAS (2.5" 10K RPM) 600GB SAS (2.5" 10K RPM) 2TB SATA II (3.5" 7,200 RPM)
Encryption Technology Options	Self-encrypting Hard Disk Drive (SED) 600GB SAS (15K RPM)	Self-encrypting Hard Disk Drive (SED) 600GB SAS (15K RPM)	Self-encrypting Hard Disk Drive (SED) 600GB SAS (15K RPM)	NA	Encrypting back-end director option for internal storage media and volumes	Encrypting back-end director option for internal storage media and volumes	Encrypting back-end director option for internal storage media and volumes
Back-end Disk Interface	3Gb/sec SAS	3Gb/sec SAS	3Gb/sec SAS	3Gb/sec SAS	4Gb/sec FC-AL	4Gb/sec FC-AL	6Gb/sec SAS
Minimum to Maximum Number of Drives	4 – 136 SAS or 4 – 159 SATA or intermix (4 HDDs are required for all configurations; can be either SAS or SATA)	4 – 240 SAS or SATA or intermix (4 HDDs are required for all configurations; can be either SAS or SATA)	4 – 480 SAS or SATA or intermix (4 HDDs are required for all configurations; can be either SAS or SATA)	4 – 480 SAS or SATA or intermix (4 HDDs are required for all configurations; can be either SAS or SATA)	0 – 240 FC and/or SATA II, including spares	5 – 1,152 FC and/or SATA II, including spares	0 – 2,048 2.5" and/or 1,280 3.5", including spares
Maximum Number of Flash Drives	15	15	30	0	32	128	256
Maximum Standard Disk Expansion Trays	7 (3U, 15 disks)	15 (3U, 15 disks)	32 (3U, 15 disks)	32 (3U, 15 disks)	NA	NA	16 (13U, 80 3.5" HDD)
Maximum Dense Expansion Trays	3 (4U, 48 SATA or 38 SAS disks)	4 (4U, 48 SATA or 38 SAS disks)	10 (4U, 48 SATA or 38 SAS disks)	0	NA	NA	16 (13U, 128 2.5" HDD)
Model Upgrade Options	Adaptable Modular Storage 2300 or 2500	Adaptable Modular Storage 2500	NO	NO	NO	NO	Rackmountable Virtual Storage Director

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Number of Controllers	2	2	2	2	Hitachi Universal Star Network™ architecture with 32 processors	Hitachi Universal Star Network™ architecture with 128 processors	Hitachi Hierarchical Star Network™ architecture
Host Interfaces	FC: 8Gb/sec iSCSI: 1Gb/sec	FC: 8Gb/sec iSCSI: 1Gb/sec	FC: 8Gb/sec iSCSI: 1Gb/sec	FC: 4Gb/sec iSCSI: 1Gb/sec	FC: 8Gb/sec IBM® FICON®: 4Gb/sec IBM ESCON®	FC: 8Gb/sec FICON: 4Gb/sec ESCON	FC: 8Gb/sec FICON: 8Gb/sec FCoE
Port Host Connections	4 FC or 8 FC or 4 FC + 4 iSCSI	8 FC or 16 FC or 8 FC + 4 iSCSI	8 FC or 16 FC or 4 iSCSI or 8 iSCSI or 8 FC + 4 iSCSI	8 FC or 16 FC or 4 iSCSI or 8 iSCSI or 8 FC + 4 iSCSI	Max. of 48 FC Max. of 24 FICON Max. of 24 ESCON	Max. of 112 FC Max. of 112 FICON Max. of 112 ESCON	Max. of 192 FC Max. of 176 FICON Max. of 96 FCoE
Fibre Bandwidth to Host	6,400MB/sec	12,800MB/sec	12,800MB/sec	6,400MB/sec	38,400MB/sec	89,600MB/sec	153,600MB/sec
Bandwidth to Drives	4,800MB/sec; sixteen 3Gb/sec SAS links per system	4,800MB/sec; sixteen 3Gb/sec SAS links per system	9,600MB/sec; thirty-two 3Gb/sec SAS links per system	9,600MB/sec; thirty-two 3Gb/sec SAS links per system	3,200MB/sec single back-end director provides eight 4Gb/sec FC loops	25,600MB/sec, max. of eight back-end directors, each providing eight 4Gb/sec FC loops	38,400MB/sec; eight back-end directors, 64 total 6Gb/sec SAS links
Active Loops per Number of HDDs	2 SAS links/20	2 SAS links/30	2 SAS links/30	2 SAS links/30	60 drives per loop pair	60 drives per loop pair	2 SAS links up to 128 drives
Active-Active Controllers	YES, Symmetric	YES, Symmetric	YES, Symmetric	YES, Symmetric	YES	YES	YES
LUNs	2,048	4,096	4,096	4,096	65,536	65,536	65,280
RAID Configuration	RAID-1+0, -1, -5, -6	RAID-1+0, -1, -5, -6	RAID-1+0, -1, -5, -6	RAID-1+0, -1, -5, -6	RAID-1+0, -5, -6	RAID-1+0, -5, -6	RAID-1+0, -5, -6
Cache Options	4GB or 8GB	8GB or 16GB	16GB or 32GB	32GB	Max. of 128GB	Max. of 512GB	48GB to 1TB

Note: FC = Fibre Channel; FCoE = Fibre Channel over Ethernet

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