

Hitachi Storage Platform Matrix



	Hitachi Simple Modular Storage 100	Hitachi Workgroup Modular Storage 100	Hitachi Adaptable Modular Storage 200	Hitachi Adaptable Modular Storage 500	Hitachi Adaptable Modular Storage 1000	Hitachi Adaptable Modular Storage 2100	Hitachi Adaptable Modular Storage 2300	Hitachi Adaptable Modular Storage 2500	Hitachi Universal Storage Platform™ VM	Hitachi Universal Storage Platform™ V
Raw Capacity	11.8TB SATA	103.3TB SATA	41.2TB FC, 94.4TB SATA (Intermix)	88.4TB FC, 212.5TB SATA (Intermix)	177TB FC, 425TB SATA (Intermix)	118TB SATA 47TB SAS	236TB SATA 94TB SAS	472TB SATA 188TB SAS	94.5TB (400GB FC); 236.3TB (1TB SATA)	453.7TB (400GB FC); 1134.5TB (1TB SATA)
Hard Disk Drive (HDD) Technology Options	146GB SAS (15K RPM) 300GB SAS (15K RPM) 400GB SAS (10K RPM) 500GB SATA II (7200 RPM) 750GB SATA II (7200 RPM) 1TB SATA (7200 RPM)	500GB SATA II (7200 RPM) 750GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	73GB FC (15K RPM) 146GB FC (15K RPM) 300GB FC (10K RPM & 15K RPM) 400GB FC (10K RPM) 500GB SATA II (7200 RPM) 750GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	73GB FC (15K RPM) 146GB FC (15K RPM) 300GB FC (10K RPM & 15K RPM) 400GB FC (10K RPM) 500GB SATA II (7200 RPM) 750GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	73GB FC (15K RPM) 146GB FC (15K RPM) 300GB FC (10K RPM & 15K RPM) 400GB FC (10K RPM) 500GB SATA II (7200 RPM) 750GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	146GB SAS (15K RPM) 300GB SAS (15K RPM) 400GB SAS (10K RPM) 500GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	146GB SAS (15K RPM) 300GB SAS (15K RPM) 400GB SAS (10K RPM) 500GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	146GB SAS (15K RPM) 300GB SAS (15K RPM) 400GB SAS (10K RPM) 500GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	73GB FC (15K RPM) 146GB FC (15K RPM) 300GB FC (15K RPM) 450GB FC (15K RPM) 400GB FC (10K RPM) 750GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)	73GB FC (15K RPM) 146GB FC (15K RPM) 300GB FC (10K RPM & 15K RPM) 450GB FC (15K RPM) 400GB FC (10K RPM) 750GB SATA II (7200 RPM) 1 TB SATA II (7200 RPM)
HDD I/F	SAS 3Gb/sec	SATA II 3Gb/sec	FC 2Gb/sec SATA II 3Gb/sec	FC 2Gb/sec SATA II 3Gb/sec	FC 2Gb/sec SATA II 3Gb/sec	SAS 3Gb/sec SATA II 3Gb/sec	SAS 3Gb/sec SATA II 3Gb/sec	SAS 3Gb/sec SATA II 3Gb/sec	4Gb/sec FC-AL	4Gb/sec FC-AL
Minimum to Maximum Number of HDDs	6, 8 or 12 (2 repair slots for spares)	5 - 105 SATA	5 - 105 FC 0 - 90 SATA (5 FC HDDs are required for all configurations)	5 - 225 FC 0 - 210 SATA (5 FC HDDs are required for all configurations)	5 - 450 FC 0 - 420 SATA (5 FC HDDs are required for all configurations)	4 - 120 SAS or 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)	0 - 240 (FC and/or SATA II) – with spares	5 - 1152 (FC and/or SATA II) – with spares
Model Upgrade Options	YES, via cable copy	NO	Adaptable Modular Storage 500	Adaptable Modular Storage 1000	NO	Adaptable Modular Storage 2300 or 2500	Adaptable Modular Storage 2500	NO	NO	NO
Number of Controllers	1 or 2	1 or 2	1 or 2	1 or 2	2	2	2	2	Universal Star Network™ architecture with 32 processors	Universal Star Network™ architecture with 128 processors

	Hitachi Simple Modular Storage 100	Hitachi Workgroup Modular Storage 100	Hitachi Adaptable Modular Storage 200	Hitachi Adaptable Modular Storage 500	Hitachi Adaptable Modular Storage 1000	Hitachi Adaptable Modular Storage 2100	Hitachi Adaptable Modular Storage 2300	Hitachi Adaptable Modular Storage 2500	Hitachi Universal Storage Platform™ VM	Hitachi Universal Storage Platform™ V
Port Host Connections	4 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	4 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	4 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	4 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	8 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI or 4 @ 1, 2 or 4Gb/sec FC + 4 @ 1Gb/sec iSCSI	4 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	8 @ 1, 2 or 4Gb/sec FC or 4 @ 1Gb/sec iSCSI	16 @ 1, 2 or 4Gb/sec FC or 8 @ 1Gb/sec iSCSI or 8 @ 1, 2 or 4Gb/sec FC + 4 @ 1Gb/sec iSCSI	Max. of 48 FC @ 1, 2, or 4Gb/sec; Max. of 24 FICON® @ 4Gb/sec; Max. of 24 ESCON®	Max. of 224 FC @ 1, 2, or 4Gb/sec; Max. of 112 FICON® @ 4Gb/sec; Max. of 112 ESCON®
Fibre Bandwidth to Host	1600MB/sec	1600MB/sec	1600MB/sec	1600MB/sec	3200MB/sec	1600MB/sec	3200MB/sec	6400MB/sec	19200MB/sec	89600MB/sec
Bandwidth to Drives	1200MB/sec SAS 3Gb/sec links 2 links per controller	400MB/sec Two 2Gb/sec FC loops per controller, switched	400MB/sec Two 2Gb/sec FC loops per controller, switched	800MB/sec Two 2Gb/sec FC loops per controller	1600MB/sec Four 2Gb/sec FC loops per controller	4800MB/sec Sixteen 3Gb/sec SAS links per system	4800MB/sec Sixteen 3Gb/sec SAS links per system	9600MB/sec Thirty-two 3Gb/sec SAS links per system	3200MB/sec single back end director provides eight 4Gb/sec FC loops	25600MB/sec, max. of eight back end directors, each providing eight 4Gb/sec FC loops
Active Loops per Number of HDDs	4/12	2/15	2/15	4/15	4/15	8 SAS links /15	8 SAS links /15	8 SAS links /15	2 loops per 60 disks	Typical configuration of 2 loops per 64 disks
Active/Active Controllers	YES, Symmetric	YES	YES	YES	YES	YES, Symmetric	YES, Symmetric	YES, Symmetric	YES	YES
LUNs	1024	512	512	2048	4096	2048	4096	4096	65,536	65,536
RAID Configuration	RAID-6	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, -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
Cache Options	1-2GB	512MB-2GB	1-4GB	2-8GB	4-16GB	4-8GB	8-16GB	16-32GB	Max. of 128GB	Max. of 512GB

Note: FC = Fibre Channel

© Hitachi Data Systems Corporation

Corporate Headquarters 750 Central Expressway, Santa Clara, California 95050-2627 USA
Contact Information: + 1 408 970 1000 www.hds.com / info@hds.com

Asia Pacific and Americas 750 Central Expressway, Santa Clara, California 95050-2627 USA
Contact Information: + 1 408 970 1000 www.hds.com / info@hds.com

Europe Headquarters Sefton Park, Stoke Poges, Buckinghamshire SL2 4HD United Kingdom
Contact Information: + 44 (0) 1753 618000 www.hds.com / info.emea@hds.com

Hitachi is a registered trademark of Hitachi, Ltd., in the United States and other countries. Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., in the United States and other countries.

All other trademarks, service marks and company names mentioned in this document or web site are properties of their respective owners.

Notice: This document is for informational purposes only, and does not set forth any warranty, express or limited, concerning any equipment or service offered or to be offered by Hitachi Data Systems. This document describes some capabilities that are conditioned on a maintenance contract with Hitachi Data Systems being in effect, and that may be configuration dependent, and features that may not be currently available. Contact your local Hitachi Data Systems sales office for information on feature and product availability.

© Hitachi Data Systems Corporation 2008. All Rights Reserved. PLC-001-E DG October 2008