

Online Storage Systems and Tape Systems



ETERNUS DX Disk Storage Systems



Model	ETERNUS DX60 S2	ETERNUS DX80 S2 / DX90 S2	ETERNUS DX410 S2 / DX440 S2	ETERNUS DX8700 S2
Interfaces	Fibre Channel (4 / 2 / 1 Gbit/s), iSCSI (1 Gbit/s), SAS (3 Gbit/s)	Fibre Channel (8 / 4 / 2 Gbit/s), FCoE (10 Gbit/s), iSCSI (10 / 1 Gbit/s), SAS (6 / 3 Gbit/s)	Fibre Channel (8 / 4 / 2 Gbit/s), FCoE (10 Gbit/s), iSCSI (10 / 1 Gbit/s)	Fibre Channel (8 / 4 / 2 Gbit/s), FCoE (10 Gbit/s), iSCSI (10 / 1 Gbit/s)
Max. Drives	24 x SAS and Nearline SAS in mixed configuration	DX80 S2 : 120 / 120 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5") DX90 S2 : 120 / 240 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	DX410 S2 : 240 / 480 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5") DX440 S2 : 480 / 960 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	1,536 / 3,072 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")
Max. Capacity	72 TB	360 TB	720 / 1,440 TB	4,608 TB
No. of host interfaces	2 - 4	2 - 8	4 - 16 / 4 - 32	4 - 128
No. of connect. Hosts	64 x FC / iSCSI or 4 x SAS	Max. 1,024	Max. 1,024	Max. 8,192
RAID Level			0, 1, 1+0, 5, 5+0, 6	
Thin Provisioning & AST	-	✓	✓	✓
Remote Replication	-	✓ for DX90 S2	✓	✓
Storage Management	ETERNUS SF software suite			

ETERNUS LT Tape Storage Systems



Model	ETERNUS LT20 S2	ETERNUS LT40 S2	ETERNUS LT60 S2	ETERNUS LT250	ETERNUS LT270
Type		LTO-3 / LTO-4 / LTO-5			LTO-3 / LTO-4 / LTO-5 FH
Capacity (max.) (native)	3.2 / 6.4 / 12 TB	9.6 / 19.2 / 36 TB	19.2 / 38.4 / 72 TB	36.4 / 72.8 / 136.5 TB	274.8 / 549.6 / 1030.5 TB
Cartridges	2 x 4	2 x 12	4 x 12	61-91	709
Drives (max.)	1 HH	1 FH / 2 HH	2 FH / 4HH	6	20
Interfaces		SAS, FC		SCSI (Ultra 160 LVDS), Fibre Channel (Max x 8 Gbit/s)	Fibre Channel (Max x 8 Gbit/s)

ETERNUS JX40 Storage Subsystems



Model	ETERNUS JX40
Type	Passive direct server attached drive extension (JBOD)
Max. Capacity	12 / 72 TB
Hard Disks	1 - 144 SAS and SATA, 2.5" drives mixable in up to 6 shelves
Protocols	SAS
RAID Level	1, 3, 5, 6, 1+0, 5+0 (with host-based controller)
Interfaces	SAS 6 Gbit/s

ETERNUS SF Storage Management Software

ETERNUS SF

Fujitsu Storage Management Software ETERNUS SF reduces total cost of ownership by managing the operation of ETERNUS DX disk storage systems throughout the data's lifecycle. For today's complicated storage environments, ETERNUS SF achieves business continuity and optimizes storage resources.

ETERNUS SF Express

Simplifies setup and administration of ETERNUS DX Entry-level

ETERNUS SF Storage Cruiser

Advanced management and stable operation for all ETERNUS DX storage systems

ETERNUS SF Disk Space Monitor

Reliable system operations with real-time disk-space visualization

ETERNUS SF AdvancedCopy Manager

High-speed internal and external volume copy functions in collaboration with Fujitsu's disk storage systems

Data Protection and Network Components



ETERNUS CS800 Data Protection Appliance



Model	ETERNUS CS800 NAS Series	ETERNUS CS800 VTL
Capacity	4 to 160 TB	32 to 160 TB
Host Ethernet and Replication Interface	5 or 7 x 1 GbE + 2 x 10 GbE	5 x 1 GbE
Fibre Channel Interface (VTL and Path-to-Tape)	2 x 8 GbFC (except Entry Systems)	4 x 8 GbFC
Path-to-Tape	Symantec OST support of direct tape creation, Application specific (except Entry Systems)	
NAS Backup Target	NFS and/or CIFS mount point	
Shares (max.)	128	
Partitions (max.)	64 (except Entry Systems)	
Virtual Tape Drives (max.)	80 (except Entry Systems)	256
Virtual Cartridges (max.)	9000 (except Entry Systems)	
Tape Drives Emulations	DLT7000, SDLT 320, SDLT 600, SLT-S4, LTO-1, LTO-2, LTO-3, LTO-4, LTO-5 (except Entry Systems)	
Library Emulations	Quantun Scalar 24 / 100, Scalar i500 / i2000 / i6000 (except Entry Systems)	
Performance	Up to 6.3 TB/h	
Standard Software included	Deduplication, Replication, Path-to-Tape, Multiprotocol Support (except Entry Systems)	
Note	For detailed specification refer to the data sheet	

ETERNUS CS HE Data Protection Appliance



Model	ETERNUS CS800 NAS Series CS50 to CS5000, CS500 DL, CS1500 DL, CS1500 VINS, CS2000 VINS
NAS Frontend Ports (max.)	4 X 10 GbE or 4 x 1 GbE per node
32 NAS Backend Target	NFS and/or CIFS mount point
Shares (max.)	2048
VTL Frontend Ports	2 to 40
Virtual Tape Drives	16 to 1280 (FC), up to 640 (ESCON, FICON)
Backend Ports	2 to 40
Physical Tape Drives (mixed)	2 to 112
Physical Tape Libraries (mixed)	Up to 10z
System Volume Cache	2.4 to 3,648 TB
Sustained Performance (max.)	55 TB/h
Number of Files (max.)	2 billion
Virtual Tape Volumes (max.)	3,000,000
Physical Tape Volumes (max.)	50,000
Deduplication Store Option	Up to 1,600 TB
Note	For detailed specification refer to the data sheet

BROCADE SAN Switches



Model	BROCADE 300 / 5100 / 5300	BROCADE 6505 / 6510	BROCADE 7800	BROCADE 8000	BROCADE VDX 6710-54 / VDX 6730-32 / VDX 6730-76	BROCADE DCX 8510-8 / DCX 8510-4 / DCX BACKBONE / DCX-4S BACKBONE	
Type	FC Switches		Fabric Extension	Converged Switches		Backbones	
Ports	FC	24 / 40 / 80	24 / 48	16	8	- / 8 / 16	512 / 256 / 512 / 256
	GbE (FCIP)	-	-	6	-	-	44
	GbE (DCB)	-	-	-	24	6 / 24 / 60	- / - / 48 / 48
	GbE (RJ45)	-	-	-	-	48 / - / -	-
Speed	FC	1,2,4,8Gbit/s	2,4,8,16Gbit/s	1,2,4,8Gbit/s	1,2,4,8Gbit/s	- / 2,4,8Gbit/s / 2,4,8Gbit/s	2,4,8,16Gbit/s / 2,4,8,16Gbit/s / 1,2,4,8Gbit/s / 1,2,4,8Gbit/s
	GbE (FCIP)	-	-	1Gbit/s	-	-	1,10Gbit/s
	GbE (DCB)	-	-	-	10Gbit/s	1, 10Gbit/s	- / - / 10Gbit/s / 10Gbit/s
	GbE (RJ45)	-	-	-	-	1Gbit/s / - / -	-

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