

Online Storage Systems



ETERNUS DX Series



Model	ETERNUS DX60 S3	ETERNUS DX100 / DX200 S3	ETERNUS DX500 / DX600 S3	ETERNUS DX8700 S3 / DX8900 S3
Type	The Economy Disk Storage System for SMBs	Unified disk storage system for small and mid-range enterprises		Enterprise Storage without Limits
Host Interfaces	4 / 8 Gbit/s FC, 1 Gbit/s iSCSI, 3 / 6 Gbit/s SAS	8 / 16 Gbit/s FC, 10 Gbit/s FCoE, 1 / 10 Gbit/s iSCSI, 6 Gbit/s SAS, 1 / 10 Gbit/s Ethernet	8 / 16 Gbit/s FC, 10 Gbit/s FCoE, 1 / 10 Gbit/s iSCSI, 1 / 10 Gbit/s Ethernet	8 / 16 Gbit/s FC, 10 Gbit/s FCoE, 1 / 10 Gbit/s iSCSI
Max. Disk Drives	48 / 96 x Nearline SAS and SAS in mixed configuration (3.5" / 2.5") / incl. 8 SSD max.	144 / 264 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	528 / 1056 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	1,536 / 4,608 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")
Max. Storage Capacity	288 TB	864 / 1,584 TB	3,168 / 6,336 TB	4,608 TB / 13,824 TB
Max. Host Interfaces	4	16	16 / 32	128 / 384
No. of connect. hosts	Max. 128	Max. 1,024	Max. 1,024	Max. 8,192
RAID Level			0, 1, 1+0, 5, 5+0, 6	
Thin Provisioning & AST	Thin Provisioning: ✓ AST: -	✓	✓	✓
Transparent Failover & Auto QoS	-	✓	✓	✓
Remote Replication	-	✓	✓	✓
Storage Management	ETERNUS SF V16 Storage Management Software suite to achieve business continuity and to optimize storage resources.			
Optional Software	The Fujitsu ETERNUS Snapshot Manager is feature-rich software to manage and catalog application-consistent hardware snapshots of ETERNUS DX arrays without scripting.			

All-flash Arrays



Model	ETERNUS DX200F
Type	All-flash Array
Host Interfaces	16 Gbit/s FC, 10 Gbit/s iSCSI
Max. Storage Capacity	38.4 TB
Max. IOPS	760,000 (100% Read, sequential), 430,000 (100% Read, random)
Nominal Latency	Write 88 µs, Read 180 µs
Storage Management	ETERNUS SF storage management software

ETERNUS JX



Model	ETERNUS JX40 S2	ETERNUS JX60
Type	Passive direct server attached drive extension (JBOD)	Passive direct server attached drive extension (JBOD)
Host Interfaces	SAS 12 Gbit/s	SAS 6 Gbit/s
Max. Storage Capacity	173 TB with 2.5" disks / 192 TB with 3.5" disks	480 TB
Max. Disk Drives	2.5": max. 96 SAS disks and SSDs 3.5": max. 48 Nearline SAS disks	3.5": max. 120 Nearline SAS disks
Protocols	SAS	SAS
RAID Level	0, 1, 5, 6, 1+0, 5+0, 6+0	0, 1, 5, 6, 1+0, 5+0, 6+0

ETERNUS CD10000



Model	ETERNUS CD10000 S2	ETERNUS CD10000 Quick Start Edition
Type	Hyper-scale, software-defined storage (SDS)	Ceph storage evaluation platform
Host connectivity options	Block, File and Object*	
Software version	Opensource software: Ceph Enterprise	
Hardware platform	Integrated system based on PRIMERGY and ETERNUS	Flex Node
Storage Management	Fujitsu's GUI Management console	
Node Types	Various Storage Nodes and Infrastructure component options	1x Flex Node hosting multiple virtualized nodes
Basic Configuration	4x Storage node + 1x Management node + Infrastructure included	1x Quick Start Edition
Max. no of nodes	Upgradable up to 224 nodes**	1x Flex Node
Max. usable capacity	42 PB***	44 TB
DR capabilities	Split-site and Geo-replication across clusters	Possible with two Quick Start Editions
Application interfaces	Ceph storage interfaces (Object, S3, Block, File), OpenStack interfaces (Swift, Cinder, Glance)	

CELVIN NAS Server



Model	CELVIN NAS Server QR802 / Q905 / Q805 / Q703
Host Interfaces	Ethernet (1 Gbit/s), USB 3.0, USB 2.0, eSATA
Max. Storage Capacity	16 TB / 36 TB / 24 TB / 8 TB
RAID Levels	QR802 / Q802: 0 / 1 / 5 / 5+HS / 6 / 10 / JBOD Q902: 0 / 1 / 5 / 5+HS / 6 / 6+HS / 10 / 10+HS / JBOD Q703: 0 / 1 / JBOD / Single disk
VMware, Citrix, Hyper-V Virtualization	yes
FTP, file, web, printer, SQL and multimedia server	yes
Remote Access and System Management	yes

NetApp FAS Series



Model	FAS2520 / FAS2552 / FAS2554	FAS8020	FAS8040	FAS8060	FAS8080 EX
Type	Unified, Hybrid, Scale-Out Storage				
Host Interfaces	FC, Ethernet, Ethernet for FAS2520	FC, Ethernet			
Max. Storage Capacity	336 TB / 518 TB / 576 TB	1920	2880	4800	5760
Max. Disk Drives	84 / 144 / 144	480	720	1200	1440
Max. Flash Pool	4 TB	6	12	18	36
Max. Flash Cache	n.a.	3 TB	4 TB	8 TB	24 TB
Protocols	NFS, CIFS, iSCSI, FCoE und FC NFS, CIFS, iSCSI for FAS2520	FCP, iSCSI, NFS, CIFS, FCoE, HTTP, FTP			

*planned

**Higher numbers of nodes on special release

***Higher capacities on special request

Data Protection and Services



Tape Systems



Model	LTO Desktop Drive	ETERNUS LT20 S2 / LT40 S2 / LT60 S2	ETERNUS LT260	Quantum Scalar i500 / i6000	Oracle SL150 / SL3000* / SL8500*
Type	LTO-5 / LTO-6	LTO-4 / LTO-5 / LTO-6	LTO-5 / LTO-6	LTO-5 / LTO-6 / LTO-7	LTO-5 / LTO-6
Max. Capacity (native)	1.5 / 2.5 TB	6.4 - 20 TB / 19.2 - 60 TB / 38.4 - 120 TB	1400 TB	2,454 TB / 72,036 TB	750 TB / 14.8 PB / 252 PB
Cartridges (max.)	1	8 / 24 / 48	560	409 / 12,006	300 / 5,925 / 100,880
Drives (max.)	1 HH	1 / 2 / 4	42	18 / 192	20 / 56 / 640
Interfaces	SAS	SAS, FC	SAS, FC	FC, SAS / FC	SAS, FC / FC / FC
Note	-	-	-	-	*also available with enterprise drive type T10000

ETERNUS CS200c



Model	ETERNUS CS200c S2	
	Entry	Scale
Type	Integrated Backup Appliance Powered by Commvault®	
Capacity	1 - 36 TB	6 - 132 TB
Ethernet Ports	4 - 6 x 1 Gbps + 0 - 2 x 10 Gbps	4 x 1 Gbps + 2 x 10 Gbps
FC Ports	0 - 2 x 16 Gbps	2 x 16 Gbps
Tapeout	FC, SAS and USB-3	
Scalability	Appliance-internal & parallel operation of appliances	
Database performance	HDD 15krpm	SSD
Data protection functions	Backup & recovery, deduplication, archiving, encryption, application support, snapshot, replication, tape attachment, cloud backup	
Supported environments	Physical, virtual and NAS / NDMP systems	

ETERNUS CS800



Model	ETERNUS CS800 S6	
	Entry	Scale
Type	Backup appliance	
Capacity (net usable)	8 - 24 TB, 8 - 120 TB	32 - 352 TB
Capacity (logical)	Up to 1.2 PB, up to 6 PB	Up to 17.6 PB
Ethernet Ports (fixed)	5 x 1 GbE	3 x 1 GbE
Ethernet Ports (optional)	2 x 10 GbE	8 x 1 GbE or 4 x 10 GbE
Fibre Channel Ports (optional)	2 x 8 GbFC	4 x 8 GbFC
Hot Spare Option	No	Yes
NAS - supported protocols	CIFS, NFS	CIFS, NFS
NAS Shares (max.)	128	128
Partitions (max.)	64	64
Virtual Tape Cartridges (per partition)	9,000	9,000
Virtual Tape Drives (max.)	80	160
Tape Drive Emulations	DLT7000, LTO-1, LTO-2, LTO-3, LTO-4, LTO-5, SDLT 320, SDLT 600, SLT-S4	
Libraries Emulations	Quantum Scalar 24, Scalar 100, Scalar i2000, Scalar i500, Scalar i6000	
Performance	Up to 5.5 TB/h	tbd
Performance (max. SPEED mode)	Up to 13.4 TB/h	tbd
Standard software included	Deduplication, Replication, Path-to-Tape, OST	

ETERNUS CS8000



Model	ETERNUS CS8000 V6.1		
	CS8200	CS8400	CS8800
Type	Unified Backup and Archive Platform		
Architecture Type	Scale-up System	Scale-out-single-site System	Scale-out-split-site System
Front-end and Back-end Port Options	VTL, VTL with Dedup, NAS	VTL, VTL with Dedup, NAS	
VTL Front-end Ports	4 to 8 FC 16 Gb / FICON 8 Gb	4 to 40 FC 16 Gb / FICON 8 Gb	
Virtual Tape Drives	32 to 64	32 to 1,280	
NAS Front-end Ports	4 to 8 x 1 GbE or 2 to 8 x 10 GbE	4 to 40 x 1 GbE or 2 to 40 x 10 GbE	
Sustained Performance (max.)	30 TB/h	150 TB/h	
Internal RAID Capacity	7 TB to 1,392 TB	7 TB to 22,272 TB	
Internal VTL Deduplication Store Option (raw)	1 to 960 TB	1 to 4,800 TB	
Virtual Tape Volumes (max.)	300,000	1,500,000	3,000,000
NAS Shares (max.)	2,048	2,048	
Number of Files (max.)	2 Billion	2 Billion	
VTL Back-end Ports Option	4 to 8 FC 16 Gb	4 to 40 FC 16 Gb	
NAS Back-end Ports Option	- (no HSM)	4 to 16 active FC 16 Gb 4 to 16 passive FC 16 Gb	
Physical Tape Volumes (max.)	50,000	50,000	
Physical Tape Libraries (max.)	10	10	

Storage Software

- Commvault software:** By leveraging a single unified code base and platform, Commvault software simplifies an IT organizations ability to manage data across its lifecycle with integrated modules for Backup & Recovery, Archive, Replication, Resource Management and Search.
- Backup Exec:** Cost-effective backup and recovery for small and medium businesses that lets you easily protect more data while reducing storage and management costs.
- NetBackup:** Simplifies the protection of your information driven enterprise by automating advanced technologies and standardizing operations across applications, platforms, and virtual environments.
- Enterprise Vault:** The industry's most widely-deployed archiving solution, is a platform that bridges the gap between legal and IT by adding intelligence to the way organizations store, manage, and discover information.

More information about our software portfolio is available on: fujitsu.com/fts/products/computing/storage/software

Services

In addition to cutting-edge products, Fujitsu delivers world-wide Maintenance and Support Services: Warranty comes standard with our products; the ServicePack / Contract Hardware, ServicePack / Contract Software and the SolutionPack are the perfect extension on top of the standard warranty. The InstallationPack ensures smooth IT operation right from the start while intern IT specialist can concentrate on their core business.

For more information regarding services please visit: fujitsu.com/fts/products/product-support-services