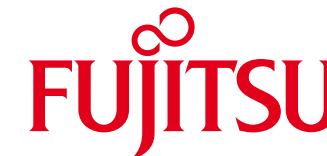


# Online Storage Systems



## ETERNUS DX Series



Model	ETERNUS DX60	ETERNUS DX100 / DX200	ETERNUS DX500 / DX600	ETERNUS DX8700 S3 / DX8900
<b>Type</b>	The Economy Disk Storage System for SMBs	Unified disk storage system for small and mid-range enterprises		Enterprise Storage without Limits
<b>Host Interfaces</b>	8 / 16 Gbit/s FC, 1 / 10 Gbit/s iSCSI, 3 / 6 Gbit/s SAS	8 / 16 Gbit/s FC, 1 / 10 Gbit/s iSCSI, 3 / 6 / 12 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
<b>Max. system memory</b>	8 GB	32 GB / 64 GB	128 GB / 256 GB	1 TB / 6 TB
<b>Max. Disk Drives</b>	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")
<b>Max. Storage Capacity</b>	480 TB	2212 / 4055 TB	8,110 / 16,220 TB	23,593 / 70,779 TB
<b>Max. Host Interfaces</b>	4	16	16 / 32	128 / 384
<b>No. of connect. hosts</b>	Max. 128	Max. 1,024	Max. 4,096	Max. 8,192
<b>RAID Level</b>			0, 1, 1+0, 5, 5+0, 6	
<b>Thin Provisioning &amp; AST</b>	Thin Provisioning: ✓ AST: -	✓	✓	✓
<b>Transparent Failover &amp; Auto QoS</b>	-	✓	✓	✓
<b>Remote Replication</b>	-	✓	✓	✓
<b>Deduplication / compression</b>	-	- / x	x / x	- / -
<b>Storage Management</b>	ETERNUS SF V16 Storage Management Software suite to achieve business continuity and to optimize storage resources.			
<b>Optional Software</b>	The Fujitsu ETERNUS Snapshot Manager is feature-rich software to manage and catalog application-consistent hardware snapshots of ETERNUS DX arrays without scripting.			

## ETERNUS AF Series



Model	ETERNUS AF250	ETERNUS AF650
<b>CPU</b>	6core, 2.0 GHz	10core, 3.0 GHz
<b>Max. System Memory</b>	64 GB	256 GB
<b>Number of drives</b>	2 - 48	2 - 192
<b>Max. Capacity<sup>1</sup></b>	737 TB raw 3686 TB effective <sup>2</sup>	2949 TB raw 14745 TB effective <sup>2</sup>
<b>Interface</b>	8 x FC 16G / 8 x iSCSI 10G	32 x FC 16G / 16 x iSCSI 10G
<b>Included Software</b>	All-in FlashPack (Configuration, Management and Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and Compression)	

## ETERNUS CD10000

Model	ETERNUS CD10000	ETERNUS CD10000 Quick Start Edition
<b>Type</b>	Hyper-scale, software-defined storage (SDS)	Ceph storage evaluation platform
<b>Host connectivity options</b>	Block, File and Object <sup>3</sup>	
<b>Software version</b>	Opensource software: Ceph Enterprise	
<b>Hardware platform</b>	Integrated system based on PRIMERGY and ETERNUS	Flex Node
<b>Storage Management</b>	Fujitsu's GUI Management console	
<b>Node Types</b>	Various Storage Nodes and Infrastructure component options	1x Flex Node hosting multiple virtualized nodes
<b>Basic Configuration</b>	4x Storage node + 1x Management node + Infrastructure included	1x Quick Start Edition
<b>Max. no of nodes</b>	Upgradable up to 224 nodes <sup>4</sup>	1x Flex Node
<b>Max. usable capacity</b>	42 PB <sup>5</sup>	44 TB
<b>DR capabilities</b>	Split-site and Geo-replication across clusters	Possible with two Quick Start Editions
<b>Application interfaces</b>	Ceph storage interfaces (Object, S3, Block, File), OpenStack interfaces (Swift, Cinder, Glance)	



## CELVIN NAS Servers



Model	CELVIN NAS Server QE705 / QE805 / Q805 / Q905 / QR806 / QR1006
<b>Host Interfaces</b>	Ethernet (1GbE), 10GbE (QR-Models), USB3.0/USB2.0
<b>Max. Storage Capacity</b>	12 TB / 24 TB / 24 TB / 36 TB / 24 TB / 48 TB
<b>VMware, Citrix, Hyper-V Virtualization</b>	yes, for CELVIN QR and Q systems
<b>Snapshots</b>	QE: no / Q: yes w/4GB RAM / QR: yes
<b>Backup / Replication / Restore</b>	yes, all models
<b>FTP, file, web, printer, SQL and multimedia server</b>	QR806/QR1006 max Capacity: 32 / 64TB Q805 / Q905 max Capacity: 32 / 48 TB
<b>Cloud Synchronization</b>	yes

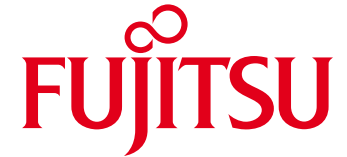
## NetApp FAS Series (Hybrid / All Flash)



Model	FAS2620 / FAS2650	FAS8200 / FAS9000	AFF A300 / A700	SF4805 / SF9605 / SF19210
<b>Type</b>	Unified, Hybrid, Scale-Out Storage		Unified, Flash, Scale-Out Storage	Block, Flash, Scale-Out Storage
<b>Max. Capacity</b>	1243 - 1440 TB	4.8 - 14.4 PB	5.9 - 7.3 PB	19.2 TB (per node)
<b>Effective Capacity<sup>6</sup></b>	Depends on usage of NetApp's efficiency features		24 - 30 PB	80 TB (per node)
<b>Protocols</b>	FC, FCoE, iSCSI, NFS, pNFS, SMB			FC, iSCSI
<b>RAID Type</b>	RAID TEC™, RAID DP®		RAID DP®	Helix RAID-less

<sup>1</sup>Maximum raw capacity depends on available SSD types | <sup>2</sup>Calculation based on deduplication/compression factor of five | <sup>3</sup>planned | <sup>4</sup>Higher numbers of nodes on special release | <sup>5</sup>Higher capacities on special request  
<sup>6</sup>Effective capacity is based on 5:1 storage efficiency ratios with the maximum number of SSDs installed. The actual ratio can be higher depending on workloads and use cases.

# Data Protection and Services



## 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	Up to 10.6 TB/h
Performance (max. SPEED mode)	Up to 13.4 TB/h	Up to 22.0 TB/h
Standard software included	Deduplication, Replication, Path-to-Tape, OST	

## ETERNUS CS8000



Model	ETERNUS CS8000 V6.1			
	CS8050	CS8200	CS8400	CS8800
Type	Datacenter storage solution for backup automation			
Architecture Type	Branch-office	Scale-up System	Scale-out-single-site	Scale-out-split-site
Host Connectivity Options	VTL, VTL with Dedup	VTL, VTL with Dedup, NAS	VTL, VTL with Dedup, NAS	
VTL Front-end Ports	4 FC 16 Gb	4 to 8 FC 16 Gb / FICON 8 Gb	4 to 40 FC 16 Gb / FICON 8 Gb	
Virtual Tape Drives	max. 32	32 to 64	32 to 2,540	
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.)	1.4 TB/h	30 TB/h	150 TB/h	
Internal RAID Capacity	14 TB	7 TB to 1,392 TB	7 TB to 22,272 TB	
Internal VTL Deduplication Store Option (raw)	7 TB - 14 TB	1 to 960 TB	1 to 4,800 TB	
Virtual Tape Volumes (max.)	20,000	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 FC 16 Gb	4 to 8 FC 16 Gb	4 to 40 FC 16 Gb	
NAS Back-end Ports Option	-	(no HSM)	2 to 8 active FC 16 Gb 2 to 8 passive FC 16 Gb	
Physical Tape Volumes (max.)	500	50,000	50,000	
Physical Tape Libraries (max.)	1	10	10	

## ETERNUS CS200c



Model	ETERNUS CS200c S3	
	Entry	Scale
Type	Integrated Backup Appliance Powered by Commvault®	
Capacity	1 - 24 TB	6 - 165 TB
Ethernet Ports	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	Yes - capacity upgrades & parallel operation of appliances up to PBytes of capacity	
Database performance	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	

## Tape Systems



Model	LTO Desktop Drive	ETERNUS LT20 S2 / LT40 S2 / LT60 S2	ETERNUS LT260	Quantum Scalar i3 / i500 / i6 / i6000	Oracle SL150 / SL3000* / SL8500*
Type	LTO-5 / LTO-6	LTO-5 / LTO-6 / LTO-7	LTO-5 / LTO-6 / LTO-7	LTO-6 / LTO-7	LTO-6 / LTO-7
Max. Capacity (native)	1.5 / 2.5 TB	12 - 48 TB / 36 - 144 TB / 72 - 288 TB	3,360 TB	1.2 PB / 2.4 PB / 4.8 PB / 72 PB	1.8 PB / 35.5 PB / 605 PB
Cartridges (max.)	1	8 / 24 / 48	560	200 / 409 / 800 / 12,006	300 / 5,925 / 100,880
Drives (max.)	1 HH	1 / 2 / 4	42	12 / 18 / 24 / 192	20 / 56 / 640
Interfaces	SAS	SAS, FC	SAS, FC	SAS, FC / SAS, FC / FC / FC	SAS, FC / FC / FC
Note	-	-	-	-	*also available with enterprise drive type T10000

## Services

FUJITSU hardware is marked by outstanding quality and paramount focus on business-centric design. To complete and ensure this over the entire lifecycle, Fujitsu offers a variety of Product Maintenance and Support Services safeguarding datacenter operations worldwide. Warranty comes standard with our products; Support Pack for Hardware or Software, our ServiceContract or SolutionPacks or SolutionContract are the perfect extension on top of the standard warranty. To help you right from the start, our InstallationPack ensures smooth IT operation while internal IT specialists can concentrate on their core business.

For more information regarding services please visit: [www.fujitsu.com/fts/products/product-support-services](http://www.fujitsu.com/fts/products/product-support-services)

## Veritas NetBackup appliance



Model	NetBackup 5240		NetBackup 5330
Type	Media or Master Server	Media Server with additional Storage	Media Server with additional Storage
Usable Capacity	4 - 27 TB	53 - 201 TB	229 - 687 TB
Ethernet Ports	4 x 1 Gbps + 2 x 10 Gbps		
iSCSI ports	Up to 2 x 10 Gbps	-	
FC Ports	Up to 10 x 8 GbFC	Up to 8 x 8 GbFC	
Tapeout	FC 8 Gbps		FC 8 Gbps
Scalability	Up to 100+ media server can be managed by one master server		
Data protection functions	Backup & recovery, application support, snapshot, replication, deduplication, tape attachment, cloud backup		
Supported environments	Physical, virtual and NAS/NDMP systems	Physical, virtual and NAS/NDMP systems	

## Storage Software

- Commvault software: By leveraging a single unified code base and platform, Commvault software simplifies an IT organization's 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: [www.fujitsu.com/fts/products/computing/storage/software](http://www.fujitsu.com/fts/products/computing/storage/software)