

Online Storage Systems



ETERNUS DX Series



Model	ETERNUS DX60	ETERNUS DX100 / DX200	ETERNUS DX500 / DX600	ETERNUS DX8700 / DX8900
Type	The Economy Disk Storage System for SMBs	Unified disk storage system for small and mid-range enterprises		Enterprise Storage without Limits
Host Interfaces	8 / 16 Gbps FC, 1 / 10 Gbps iSCSI, 6 / 12 Gbps SAS	8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI, 12 Gbps SAS, 1 / 10 Gbps Ethernet	8 / 16 / 32 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI, 1 / 10 Gbps Ethernet	16 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI
Max. system memory	8 GB	32 GB / 64 GB	256 GB / 512 GB	1 TB / 18 TB
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 / 6,912 x SSD, SAS and Nearline SAS in mixed configuration (3.5" / 2.5")
Max. raw capacity SSD	31 TB	4,424 / 8,110 TB	16,220 / 32,440 TB	23,593 / 141,558 TB
Max. raw capacity HDD	576 TB	1,728 / 3,168 TB	6,336 / 12,672 TB	9,216 / 80,064 TB
Max. Host Interfaces	4	16	16 / 32	128 / 384
No. of connect. hosts	Max. 128	Max. 1,024	Max. 4,096	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	-	✓	✓	✓
Deduplication / compression	-	- / x	x / x	- / -
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 AF/DX arrays without scripting.			

ETERNUS AF Series



Model	ETERNUS AF250	ETERNUS AF650
CPU	6core, 2.2 GHz	10core, 3.0 GHz
Max. System Memory	64 GB	256 GB
Number of drives	2 - 48	2 - 192
Max. Capacity ¹	1,475 TB raw, 7,375 TB effective ²	5,898 TB raw, 29,491 TB effective ²
Interface	8 x FC 32G / 8 x FC 16G / 8 x iSCSI 10G	16 x FC 32G / 32 x FC 16G / 16 x iSCSI 10G
Included Software	All-in FlashPack (Configuration, Management and Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and Compression)	

ETERNUS CD10000 Reference Architecture

Model	ETERNUS CD10000 Reference Architecture
Type	Hyper-scale, software-defined storage (SDS)
Host connectivity options	Block, File and Object
Software version	Opensource software: Ceph Enterprise
Node Types	Various Storage Nodes and Infrastructure component options
Max. no of nodes	Upgradable up to 500 nodes ³
Max. usable capacity	100 PB ⁴
DR capabilities	Split-site and Geo-replication across clusters
Application interfaces	Ceph storage interfaces (Object, S3, Block, File), OpenStack interfaces (Swift, Cinder, Glance)

CELVIN NAS



Model	CELVIN NAS Server QE707 / Q807 / Q805 / Q905 / QR806 / QR1006
Host Interfaces	Ethernet(1GbE), 10GbE(QR-Models), USB3.0 / USB2.0
Max. Storage Capacity	12 TB / 24 TB / 24 TB / 36 TB / 32 TB / 64 TB
VMware, Citrix, Hyper-V Virtualization	yes, for CELVIN QR and Q systems
Snapshots	QE: no / Q: yes w/4GB RAM / QR: yes
Backup / Replication / Restore	yes, all models
FTP, file, web, printer, SQL and multimedia server	QR806/QR1006 max Capacity: 32 / 64TB Q805 / Q905 max Capacity: 32 / 48 TB
Cloud Synchronization	yes

NetApp FAS Series (Hybrid / All Flash)



Model	FAS		AFF			Solid Fire			
	FAS2650 / FAS2620	FAS2750 / FAS2720	FAS8200 / FAS9000	AFF A220	AFF A300 / A700 / A800	AFF A700s Node	H-610S-1 node	H-610S-2 node	H-610S-4 node
Type	Unified, Hybrid, Scale-Out Storage			Unified, All Flash, Scale-Out Storage			Block, All Flash, Scale-Out Storage		
Max. Capacity	1243 - 1440 TB		4.8 - 14.4 PB	4 PB	11.7 PB / 14.6 PB / 6.6 PB	6.6 PB	11.52 TB	23.04 TB	46.08 TB
Effective Capacity ⁶	Depends on usage of NetApp's efficiency features			16 PB	46.9 PB / 58.6 PB / 26.4 PB	26.4 PB	19.64 TB	39.28 TB	78.57 TB
Protocols	FC, FCoE, iSCSI, NFS, pNFS, CIFS / SMB			FC, FCoE, iSCSI, NFS, pNFS, SMB	NVMe/FC, FC, iSCSI, NFS, pNFS, CIFS/SMB		iSCSI		
Data Protection	RAID TEC™, RAID DP®, Snapshot						Helix RAID-less		

¹Maximum raw capacity depends on available SSD types | ²Calculation based on deduplication/compression factor of five | ³Higher numbers of nodes on special request | ⁴Higher capacities on special request

Data Protection and Services



ETERNUS CS800



Model	ETERNUS CS800	
	Entry / Flex	Scale
Type	Backup appliance	
Capacity (net usable)	8 - 24 TB / 16 - 280 TB	16 - 640 TB
Capacity (logical)	Up to 1.2 PB, up to 6 PB	Up to 20 PB
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
Performance	Up to 6.6 TB/h	Up to 13 TB/h
Performance (max. SPEED mode)	Up to 16 TB/h	Up to 27 TB/h
Standard software included	Deduplication, Replication, Path-to-Tape, OST	

ETERNUS CS8000



Model	ETERNUS CS8000				
	CS8050 NAS	CS8050	CS8200	CS8400	CS8800
Type	Storage appliance for archiving	Branch-office backup	Datacenter storage solution for backup and archive automation		
Capacity	28, 42, 56, 70 TB	14 TB	19 TB to 6 PB	19 TB to 96 PB	
VTL Front-end Ports	- (no VTL)	4 FC 32 GB	4 to 8 FC 32 Gb / FICON 32 Gb	4 to 84 FC 32 Gb / FICON 32 Gb	
Virtual Tape Drives	-	max. 32	32 to 64	32 to 5,208	
Performance (max.)	-	1.4 TB/h	30 TB/h	150 TB/h	
Internal VTL Deduplication Store Option (usable)	-	7 TB, 14 TB	1 to 480 TB	1 TB to 4.8 PB	
NAS Front-end Ports	2 to 4	- (no NAS)	4 to 8	4 to 84	
NAS Shares (max.)	256	-	2,048	2,048	
Number of Files (max.)	200 Million	-	2 Billion	2 Billion	
Back-end Tape Libraries	-	1	10	10	

ETERNUS CS200c



Model	ETERNUS CS200c	
	ECO	FLEX
Type	Integrated Backup Appliance Powered by Commvault®	
Usable Capacity	8 TB	16, 24, 32, 48 TB 24 - 144 TB
Software licensing	Various licensing options	
Ethernet Ports	3 x 1 Gbps + 2 x 10 Gbps	3 x 1 Gbps + 4 x 10 Gbps
FC Ports	-	Up to 2 x 16 Gbps
Tapeout	SAS 12 Gbps	SAS 12 Gbps or FC 16 Gbps
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	ETERNUS LT20 / LT40 / LT60	ETERNUS LT260	Quantum Scalar i3 / i500 / i6 / i6000	Oracle SL150 / SL4000* / SL8500*
Type	LTO-6 / LTO-7 / LTO-8	LTO-6 / LTO-7 / LTO-8	LTO-6 / LTO-7 / LTO-8	LTO-7 / LTO-8
Max. Capacity (native)	12 - 96 TB / 36 - 288 TB / 72 - 576 TB	16,800 TB	2.4 PB / 9.6 PB / 4.9 PB / 144 PB	5.4 PB / 108 PB / 1210.5 PB
Cartridges (max.)	8 / 24 / 48	560	200 / 409 / 800 / 12,006	450 / 9,000 / 100,880
Drives (max.)	1 / 2 / 4	42	12 / 18 / 24 / 192	30 / 120 / 640
Interfaces	SAS, FC	SAS, FC	SAS, FC / SAS, FC / FC / FC	SAS, FC / FC / FC
Note	-	-	-	*also available with enterprise drive type T10000

Veritas NetBackup appliance



Model	NetBackup Virtual Appliance	NetBackup 5240	NetBackup 5330 5340
Type	Master/Media Server for Remote Offices and Branch Offices	Master or Media Server	Media Server with additional Storage
Usable Capacity	2 TB	4 - 27 TB	53 - 294TB
Ethernet Ports	1 x 10 GbE (virtual interface on deployment)	Up to 8 x 1 Gbps Up to 8 x 10 Gbps	2 to 10 x 10 Gbps
iSCSI ports	-	Up to 2 x 10 Gbps	-
FC Ports	-	Up to 10 x 8 Gbps	Up to 8 x 8 Gbps
Tapeout	-	FC 8 Gbps	FC 8 Gbps
Scalability	Up to 100+ media server can be managed by one master server		
Database performance	Up to 192 concurrent backup jobs		Up to 600 concurrent backup job
Data protection functions	Backup & recovery, application support, snapshot, replication, deduplication, tape attachment, cloud backup	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	

Note: The virtual appliance is deployable in existing VMware® Infrastructures NetBackup Virtual Appliance is available as Master/Media Server for Remote Offices and Branch Offices, capacity up to 2 TB. The virtual appliance is deployable in existing VMware®Infrastructures

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Published by: Fujitsu Technology Solutions GmbH
Internet: www.fujitsu.com/fts/storage

Commvault HyperScale™



Model	Commvault HyperScale™ Appliance	Reference Architecture for Commvault HyperScale™ Software
Type	Integrated Backup Appliance	Reference Architecture
Usable Capacity	32, 48, 64, 80 TB	up to 288 TB per block
Ethernet Ports	6 x 10 Gbps, 6 x 1 Gbps, 3 x 1 Gbps iRMC	
FC Ports	up to 2 x FC 8 Gbps (optional)	
Tapeout	FC, SAS (optional)	
Scalability	Scale-out architecture, scalable up to PBytes of capacity	
Data protection functions	Commvault HyperScale™ Software, Commvault Complete™ Backup & Recovery	
Supported environments	Physical, virtual and NAS / NDMP systems	

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.

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

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

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