

Online Storage Systems









ETER

ERNUS DX Series			
1.1	ETERNILIC DVCO CO	ETERNIC DV100 / DV200 C2	٠.

Model	ETERNUS DX60 S3	ETERNUS DX100 / DX200 S3	ETERNUS DX500 / DX600 S3	ETERNUS DX8700 S3 / DX8900 S3
Туре	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	24 x SAS and Nearline SAS in mixed configuration (3.5" / 2.5")	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	144 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), 1, 1+0, 5, 5+0, 6	
Thin Provisioning & AST	Thin Provisioning: ✓ AST: -	✓	✓	✓
Transparent Failover & Auto QoS	-	*	V	V
Remote Replication	-	✓	✓	✓
Storage Management		ETERNUS SF V16 Storage Management Software su	ite to achieve business continuity and to optimize storage resources.	
Optional Software	The Fu	ijitsu ETERNUS Snapshot Manager is feature-rich software to manage a	nd catalog application-consistent hardware snapshots of ETERNUS DX ar	rays without scripting.

All-flash Arrays



CT	ERNUS JX	
	EIZINOS IV	







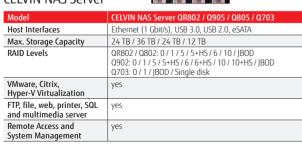
Model	ETERNUS DX200F
Туре	All-flash Array
Host Interfaces	16 Gbit/s FC, 10 Gbit/s iSCSI
Max. Storage Capacity	38.4 TB
Max. IOPS	760,000 (100 % Read, sequential), 430,000 (100 % Read, random)
Nominal Latency	Write 88 µs, Read 180 µs
Storage Management	ETERNUS SF storage management software

Model	ETERNUS JX40 S2	ETERNUS JX60
Туре	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
Туре	Hyper-scale, software-defined storage (SDS)
Host connectivity options	Unified: Block, File and Object
Software version	Ceph Enterprise
Hardware platform	Integrated system based on PRIMERGY and ETERNUS
Storage Management	Fujitsu's GUI Management console
Node Types	Various options focusing on capacity, performance and cost
Basic Configuration	4x node +1x Management node + Infrastructure included
Max. no of nodes	Upgradable to up to 224 nodes
Max. usable capacity	56 PB
Max. throughput	1GB/s including all redundant data copies per node
DR capabilities	Split-site configuration and Geo-Cluster configuration possible
Ceph storage interfaces	Ceph storage interfaces (Object, S3, Block, File), OpenStack interfaces (Swift, Cinder, Glance)

CELVIN NAS Server



NetApp FAS Series



Model	FAS2520 / FAS2552 / FAS2554	FAS8020	FAS8040	FAS8060	FAS8080 EX	
Туре	Unified, Hybrid, Scale-Out Storage					
Host Interfaces	FC, Ethernet, Ethernet for FAS2520		FC, EI	:hernet		
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				



Data Protection and Services











CS8200

Scale-up System

4 to 8 FC 16 Gb /

4 to 8 x 1 GbE or 2 to 8 x 10 GbE

7 TB to 1,392 TB

FICON 8 Gb

32 to 64

30 TB/h

2.048

2 Billion

4 to 8 FC 16 Gb

- (no HSM)

1 to 960 TB

VTL, VTL with Dedup,



Scale-out-split-site

System

VTL, VTL with Dedup, NAS

4 to 40 FC 16 Gb / FICON 8 Gb

32 to 1,280

4 to 40 x 1 GbE or 2 to 40 x 10 GbE

150 TB/h

7 TB to 22,272 TB

1 to 4,800 TB

2.048

2 Billion

4 to 40 FC 16 Gb

4 to 16 active FC 16 Gb

4 to 16 passive FC 16 Gb

50,000

10

3.000.000

FTFRNUS	CS20



Backup & recovery, deduplication, archiving, encryption, application support, snapshot, replication, tape attachment

Physical, virtual and NAS / NDMP systems

Model	LTO Desktop Drive	ETERNUS LT20 S2 / LT40 S2 / LT60 S2	ETERNUS LT260	Quantum Scalar i500 / i6000	Oracle SL150 / SL3000* / SL8500*
Туре	LTO-5 / LTO-6	LTO-4 / LTO-5 / LTO-6	LTO-5 / LTO-6	LTO-5 / LTO-6	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	1,022 / 30,015 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 CS8000 V6.1

Unified Backup and Archive Platform

Scale-out-single-site

Model	Enrty	Scale		
Туре	Integrated Backup Appliance			
Capacity	2 - 24 TB	6 - 96 TB		
Ethernet Ports	6 x 1 Gbps + 0 - 2 x 10 Gbps	6 x 1 Gbps + 2 x 10 Gbps		
FC Ports	0 - 2 x 8 Gbps	2 x 8 Gbps		
Tapeout	FC, SAS a	nd USB-3		
Scalability	Appliance-internal & paral	lel operation of appliances		
Database performance	HDD 15krpm	SSD		

ETERNUS CS800



	ŧ				н				s١
ij					11.3			*****	4
L	в.	5.0	88	Ш		15	g		周
H	8	1	85	н		쁞	ä		н



Type

Architecture Type

VTL Front-end Ports

Virtual Tape Drives

NAS Front-end Ports

Internal RAID Capacity

Store Option (raw)

NAS Shares (max.)

Number of Files (max.)

VTL Back-end Ports Option

NAS Back-end Ports Option

Physical Tape Volumes (max.)

Physical Tape Libraries (max.) 10

Sustained Performance (max.)

Internal VTL Deduplication

Virtual Tape Volumes (max.) 300,000

Port Options

Front-end and Back-end

200	
	4
	31
1.0	

Storage S	Software
-----------	----------

Simpana:

By leveraging a single unified code base and platform, Simpana 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

Data protection functions

Supported 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

More information about our software portfolio is available on: fujitsu.com/fts/products/product-support-services

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

ETERNUS CS800 S5 Backup appliance Туре Capacity 4 - 24 TB 16 - 320 TB 5 x 1 GbE 3 x 1 GbE Ethernet Ports (fixed) 8 x 1 GbE or 4 x 10 GbE Ethernet Ports (optional) 2 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 9.000 9.000 (per partition) Virtual Tape Drives (max.) 160 Tape Drive Emulations DLT7000, LTO-1, LTO-2, LTO-3, LTO-4, LTO-5, SDLT 320, SDLT 600, SLT-S4 Libraries Emulations ADIC Scalar 24, Scalar 100, Scalar i2000, Scalar i500, Scalar i6000 Performance Up to 5.5 TB/h Standard software included | Deduplication, Replication, Path-to-Tape, OST

> For networking components, please have a look at our Brocade switches on offer: www.fujitsu.com/fts/products/computing/storage/switches

Copyright: © Fujitsu Technology Solutions GmbH, 07/2015 Published by: Fujitsu Technology Solutions GmbH Internet: www.fujitsu.com/fts/storage

1.500.000

All rights, including rights created by patent grant or registration of a utility model or design, are reserved. Delivery subject to availability; right of technical modifications reserved. The names in this document may be trademarks whose use by third parties for their own purposes may infringe the rights of their owners.



