FUJITSU

Data Sheet
FUJITSU ETERNUS DX60 S3 Disk Storage System

The Economy Storage System for SMBs

ETERNUS DX Storage

Combining leading performance architecture with automated quality of service management the Fujitsu Storage ETERNUS DX series aligns storage resources with business priorities, thus enabling higher system utilization and delivering increased system consolidation capabilities and a faster ROI. Unified scalable entry-level and midrange systems, a seamless family concept enabling system upgrades and ETERNUS SF, the unified management suite across the product line, reduce operational and migration costs. ETERNUS SF Storage Management Software provides enterprise-class functionalities in the entry and midrange class and allows flexible disaster recovery and business continuity concepts for the different model sizes, thus decreasing investment costs.

ETERNUS DX60 S3

Delivering reliable operation at an affordable price makes ETERNUS DX60 S3 an ideal disk storage system for small and medium-sized IT environments.
Management software, included at no extra cost, reduces administration effort and provides functionality to ensure data protection. Flexible support for different network connections and disk types enables choice in cost and performance optimization.
Designed for smaller environments it provides remarkable scalability in storage capacity offering good headroom for future growth. The perfect storage solution for consolidation of distributed data and for smaller server virtualization projects.

Green IT

Green Policy Innovation

Green Product
This product cleared our company's original evaluation standard which followed global environmental measures.

Features & Benefits

Main Features	Benefits
Reliable operation at an affordable price	■ Affordability ■ Leading performance for the entry-level ■ Rich data safety functionality ■ Enterprise proven capabilities already in entry-level storage
Ideal for small and medium-sized IT environments	■ Easy to install, configure, operate and maintain ■ Perfect fit for storage consolidation starters & virtualization newcomers with medium capacity requirements and predictable growth rates
Free-of-charge ETERNUS SF Express Storage Management	■ Free-of-charge, richly featured management suite ■ Single point administration ■ Easy and efficient operation

Technical details

General system information

	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure
No. of controllers	1/2	
No. of host interfaces	2/4 ports	
Max. cache capacity	4 GB	
Max. no. of drives	24	
Max. no. of drive enclosures	0	1
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6	
Host interfaces	Fibre Channel (8 Gbit/s, 4 Gbit/s) iSCSI (1 Gbit/s) SAS (6 Gbit/s, 3 Gbit/s)	
Max. no. of hosts	128	
Max. storage capacity - physical	144 TB	
Drive Type	2.5-inch, SAS, 15,000 rpm, (600 GB / 300 GB) 2.5-inch, SAS, 10,000 rpm, (1.2 TB / 900 GB / 600 GB / 300 GB) 2.5-inch, Nearline SAS, 7,200 rpm, (1 TB) 3.5-inch, SAS, 10,000 rpm, (1.2 TB / 900 GB) 3.5-inch, Nearline SAS, 7,200 rpm, (6 TB / 4 TB / 2TB)	
Mixed 2.5 inch/ 3.5 inch drive enclosures	No	
Drive interface	Serial Attached SCSI (6 Gbit/s)	
Max. no. of LUNs	1,024	
Max. LUN capacity	128 TB	
Eco-mode	Yes	
Thin Provisioning	Yes	

Business Continuity Features

No. of snapshots - max.	1,024
Max. no. of copy generations	512
Data protection features	Cache Protection, Data Block Guard, Dedicated Hot Spare, Disk Drive Patrol, Global Hot Spare, Fast Recovery
Security features	HTTPS (SSL), One Time Password, RADIUS, SSH

Options

Reporting function	Yes
Note	Options can be activated via ETERNUS SF Software

Dynamic configuration

Field model upgrade	to ETERNUS DX100 S3
Non-disruptive firmware upgrade	Yes
RAID migration	Yes
LUN online expansion w/o interruption	Yes
Wide striping	Yes
Hot part replacement/ expansion	Yes

Management

Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.6
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF
Remote Support	Event notification (E-mail / SNMP / Syslog), Remote maintenance

Supported OS for ETERNUS SF Express

Operation Management Server	Windows Server® 2012 R2 Datacenter
	Windows Server® 2012 R2 Standard
	Windows Server® 2012 Datacenter
	Windows Server® 2012 Standard
	Windows Server® 2008 R2 Datacenter
	Windows Server® 2008 R2 Enterprise
	Windows Server® 2008 R2 Standard
	Windows Server® 2008 Datacenter
	Windows Server® 2008 Enterprise
Operation Management Client	Windows 7 Home Premium
	Windows 7 Professional
	Windows 7 Ultimate
	Windows Vista® Home Basic
	Windows Vista® Home Premium
	Windows Vista® Business
	Windows Vista® Enterprise
	Windows Vista® Ultimate
	Windows® XP Home Edition
	Windows® XP Professional
	Windows Server® 2008 Standard
	Windows Server® 2008 Enterprise
	Windows Server® 2008 Datacenter
	Windows Server® 2012 Standard
	Windows Server® 2012 Datacenter
	Windows Server® 2012 R2 Standard
	Windows Server® 2012 R2 Datacenter
Note	See the ETERNUS SF datasheet for further options

Supported configurations

Supported configurations	All major host operating systems, servers and business applications
	Detailed support matrix:
	http://www.fujitsu.com/global/services/computing/storage/eternus/products/diskstorage/dx100/#Tab0-4

Installation specification

19” rackmount	Yes
Service Area	Front: 850 mm (33.5 inch) or more
	Rear: 850 mm (33.5 inch) or more
Power voltage	AC 100 - 120 V / AC 200 - 240 V
Power frequency	50 / 60 Hz
Power supply efficiency	92 % (80 PLUS gold)
Maximum Power Consumption	AC 100 - 120 V: 870 W (890 VA)
Maximum Power Consumption	AC 200 - 240 V: 870 W (890 VA)
Power phase	Single

	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure	3.5-inch Drive Enclosure
Dimensions (W x D x H)	482 x 645 x 88 mm	482 x 670 x 88 mm	482 x 560 x 88 mm
	19 x 25.4 x 3.5 inch	19 x 26.4 x 3.5 inch	19 x 22 x 3.5 inch
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Weight	35 kg (77 lb)		

Environmental

Maximum Heat Generation	AC 100 - 120 V: 3,300: kJ/h
	AC 200 - 240 V: 3.300: kJ/h
Temperature (operating)	10 - 40 ℃
Temperature (not operating)	0 - 50 ℃
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	8 - 80 % (relative humidity, non-condensing)
Altitude	3,000 m (10,000 ft.)
Sound power (LWAd; 1B = 10dB)	6.7B
Sound pressure (LpAm)	49dB(A)
Sound power (LWAd; 1B = 10dB)	6.7B

Environmental

Noise notes	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Compliance

Product safety	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R
Electromagnetic Compatibility	CNS 13438, FCC CFR 47 class A , ICES 003 Class A, EN 55022 Class A, VCCI Class A, AS/NZS CISPR 22 Class A
Electromagnetic Immunity	EN 55024
CE certification	2004/108/EC, 2006/95/EC, 2011/65/EC
Approvals	CB, CE, C-Tick, FCC, EAC, GS, VCCI
Environmental compliance	RoHS compliant, WEEE compliant
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Warranty

Standard Warranty	3 years
Service level	Onsite Service
Warranty Terms & Conditions	www.fujitsu.com/support

Product Support Services - the perfect extension

Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time
Recommended Service	24x7, Onsite Response Time: 4h
Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX60 S3, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS DX60 S3, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/eternus

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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