

# Data Sheet

## FUJITSU Storage ETERNUS DX60 S3 Disk Storage System

The Economy Storage System for SMBs



### ETERNUS DX - Business-centric 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 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.



# Features & Benefits

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Main Features	Benefits
Reliable operation at an affordable price	<ul style="list-style-type: none"><li>■ Affordability</li><li>■ Leading performance for the entry-level</li><li>■ Rich data safety functionality</li><li>■ Enterprise proven capabilities already in entry-level storage</li></ul>
Ideal for small and medium-sized IT environments	<ul style="list-style-type: none"><li>■ Easy to install, configure, operate and maintain</li><li>■ Perfect fit for storage consolidation starters &amp; virtualization newcomers with medium capacity requirements and predictable growth rates</li></ul>
Free-of-charge ETERNUS SF Express Storage Management	<ul style="list-style-type: none"><li>■ Free-of-charge, richly featured management suite</li><li>■ Single point administration</li><li>■ Easy and efficient operation</li></ul>

# 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
Maximum Cache Capacity		4 GB
Maximum Disk Drives	96	48
Max. no. of drive enclosures		3
Supported RAID levels		0, 1, 1+0, 5, 5+0, 6
Host Interfaces		Fibre Channel (8 Gbit/s, 4 Gbit/s) iSCSI (10 Gbit/s [10GBase-T], 1 Gbit/s) SAS (6 Gbit/s, 3 Gbit/s)
Max. no. of hosts		128
Maximum Storage Capacity		384 TB
Drive Type		2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB) 2.5-inch, SAS, 10,000 rpm (1.8 TB / 1.2 TB / 900 GB / 600 GB / 300 GB) 2.5-inch, Nearline SAS, 7,200 rpm (2 TB / 1 TB) 2.5-inch, SSD (1.6 TB / 800 GB / 400 GB) 3.5-inch, SAS, 10,000 rpm (1.8 TB / 1.2 TB / 900 GB) 3.5-inch, Nearline SAS, 7,200 rpm (8 TB / 6 TB / 4 TB / 2TB) 3.5-inch, SSD (1.6 TB / 800 GB / 400 GB)
Note	2.5-inch drives are available only for 2.5-inch drive enclosures and 3.5-inch drives are available only for 3.5-inch drive enclosures. 6 TB/ 8 TB Nearline SAS and 1.8 TB SAS drives are Advanced Format drives.	
Mixed 2.5 inch/ 3.5 inch drive enclosures		Yes
Drive interface		Serial Attached SCSI (6 Gbit/s)
Max. no. of LUNs		1,024
Max. LUN capacity		128 TB
No. of snapshots - max.		1,024
Max. no. of copy generations		512
Eco-mode		Yes
<b>Performance management</b>		
Wide striping		Yes
<b>Information security management</b>		
Data confidentiality	Self-Encrypting Disk, Controller based Encryption, HTTPS (SSL), One Time Password, RADIUS, SSH	
Data integrity	Cache Protection, Data Block Guard, Disk Drive Patrol	
<b>Availability management</b>		
Fast Recovery		Yes
Non-disruptive maintenance		Dedicated Hot Spare, Global Hot Spare
Non-disruptive firmware upgrade		Yes
Hot part replacement		Yes
<b>Capacity management</b>		
Thin Provisioning	Yes	
RAID migration	Yes	
LUN online expansion w/o interruption	Yes	
Reporting function	Yes	
Hot part expansion	Yes	
<b>Management</b>		
Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)	
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.6	

**Management**

<b>Administration</b>	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF
<b>Remote Support</b>	Event notification (E-mail / SNMP / Syslog), Remote maintenance

**Supported OS for ETERNUS SF Express**

<b>Operation Management Server</b>	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
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<b>Operation Management Client</b>	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
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**Supported configurations**

**All major host operating systems, servers and business applications**

Detailed support matrix:

[www.fujitsu.com/global/support/products/computing/storage/disk/supported-configurations](http://www.fujitsu.com/global/support/products/computing/storage/disk/supported-configurations)

**Installation specification**

<b>19" rackmount</b>	Yes
<b>Service Area</b>	Front: 850 mm (33.5 inch) or more Rear: 850 mm (33.5 inch) or more
<b>Power voltage</b>	AC 100 - 120 V / AC 200 - 240 V
<b>Power frequency</b>	50 / 60 Hz
<b>Power supply efficiency</b>	92 % (80 PLUS gold)
<b>Maximum Power Consumption</b>	AC 100 - 120 V: 1,900 W (1,940 VA)
<b>Maximum Power Consumption</b>	AC 200 - 240 V: 1,890 W (1,930 VA)
<b>Power phase</b>	Single

	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure
<b>Dimensions (W x D x H)</b>	482 x 645 x 88 mm 19 x 25.4 x 3.5 inch 2 U	482 x 670 x 88 mm 19 x 26.4 x 3.5 inch 2 U	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch 2 U	482 x 560 x 88 mm 19 x 22 x 3.5 inch 2 U
<b>Weight</b>	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)
<b>Maximum Power Consumption (AC 100 - 120 V)</b>	610 W (620 VA)	530 W (540 VA)	430 W (440 VA)	340 W (350 VA)
<b>Maximum Power Consumption (AC 200 - 240 V)</b>	600 W (610 VA)	530 W (540 VA)	430 W (440 VA)	340 W (350 VA)

**Environment**

<b>Maximum Heat Generation</b>	AC 100 - 120 V: 7,000: kJ/h AC 200 - 240 V: 7,000: kJ/h
<b>Temperature (operating)</b>	10 - 40 °C
<b>Temperature (not operating)</b>	0 - 50 °C

**Environment**

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 pressure (LpAm)	49dB(A)
Sound power (LWAd; 1B = 10dB)	6.7B
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	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>

**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	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	<a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a>

**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	<a href="http://www.fujitsu.com/services/product-services">www.fujitsu.com/services/product-services</a>

**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**

Built 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 offerings. This allows customers to select 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/](http://www.fujitsu.com/global/products/computing/)

**Software**

[www.fujitsu.com/software/](http://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](http://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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 2016-09-01 WW-EN



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