FUJITSU

Data Sheet
FUJITSU Storage ETERNUS DX60 S5 Disk System

The Economy Storage System for SMB

ETERNUS DX - Business-centric Storage

FUJITSU Storage ETERNUS DX series are the ideal hybrid storage for on-premise storage of business-critical data in data centers, branch offices and self-operated IT of SMBs, something every business can afford, with integrated and powerful features for business growth, efficiency and continuity. Latest capacity and performance optimization capabilities contribute to overall business efficiency, outstanding data-safe technologies and all-inclusive encryption guarantee uncompromised business continuity.

ETERNUS DX60 S5

Delivering reliable operation at an affordable price makes ETERNUS DX60 S5 an ideal disk storage system for small and medium-sized IT environments. Management software, included at no extra cost, reduces administration effort and provides the 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. Thus makes it the perfect storage solution for consolidation of distributed data and smaller server virtualization projects.

Features & Benefits

Main Features	Benefits
Reliable operation at an affordable price	■ Best-in-class price/performance ratio and rich data safety functionality along with enterprise feature set
Free-of-charge ETERNUS SF Express Storage Management	■ Single point administration and easy and efficient operation with no extra cost for software package
Ideal for small and medium-sized IT environments	■ Easy to install, configure, operate and maintain, a perfect fit for storage consolidation & virtualization. Serves the need of medium capacity requirements and predictable growth rates

Technical details

General system information

	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure
No. of controllers	1/2	
No. of host interfaces	4	
Maximum System Memory	16 GB	16 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 (16Gbit/s, 8Gbit/s) iSCSI (10Gbit/s [10G BASE-T] / 1Gbit/s [1000 BASE-T]) SAS (12 Gbit/s)	
Max. no. of hosts	128	
Maximum Storage Capacity HDD	864 TB	
Maximum Storage Capacity SSD	31 TB	
Drive Type	2.5-inch, SAS, 15,000 rpm (900 GB* / 600 GB* / 300 GB*) 2.5-inch, SAS, 10,000 rpm (2.4 TB/ 1.8 TB / 1.2 TB / 600 GB / 300 GB*) 2.5-inch, SSD (3.84TB / 1.92TB / 960GB) 3.5-inch, SAS, 10,000rpm (2.4TB / 1.2TB) 3.5-inch, Nearline SAS, 7,200rpm (18TB / 16TB / 14TB / 12TB / 10TB / 8TB / 6TB / 4TB) 3.5-inch, SSD (960GB)	
Note	*For EMEIA only available on special request	
Max. no. of SSDs	8	
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes	
Drive interface	Serial Attached SCSI (12 Gbit/s)	
Back-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)	
Max. no. of RAID groups per system	12	
Max. no. of LUNs per RAID group	128	
Max. no. of LUNs	1,024	
Max. LUN capacity	128 TB	
No. of snapshots - max.	1,024	
Max. no. of copy generations	512	

Performance

Sequential access performance	3,300 MB/s (128KB Read) 940 MB/s (128KB Write)
Random access performance	65,000 IOPS (8KB Read) 29,000 IOPS (8KB Write)

Performance management

Operation Management Client	Internet Explorer® 9, 10, 11, Firefox ESR 60, ESR 68, Microsoft Edge 25, 42, 44, Google Chrome 60, 75, Chrome® 47, 50 (Android®), Safari 8, 9 (iOS)

Information security management

Data confidentiality	HTTPS (SSL), SSH, CHAP, Bidirectional CHAP
Data integrity	Data Block Guard, Cache Protection, Disk Drive Patrol, Global Hot Spare, Dedicated Hot Spare, Copy back less, Drive shield, Fast Recovery

Availability management

Non-disruptive firmware upgrade	Yes
Hot part replacement	Yes

Capacity management

Thin Provisioning	Yes
RAID migration	Yes

Capacity management

Reporting function	Yes
Hot part expansion	Yes
Non-disruptive firmware upgrade	Yes

Management

Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF

Supported OS for ETERNUS SF

Operation Management Server	Microsoft® Windows Server® 2019
	Microsoft® Windows Server® 2016
	Microsoft Windows Server 2012, 2012 R2
	Solaris® 11 (11/11 or later)
	Solaris® 10 (except ETERNUS SF Express)
	Red Hat Enterprise Linux 8
	Red Hat® Enterprise Linux® 7
	Red Hat® Enterprise Linux® 6
	Oracle Linux 6
	VMware® vSphere® 6.0, 6.5, 6.7
	Microsoft Windows Server 2019 Hyper-V
	Microsoft Windows Server 2016 Hyper-V
	Microsoft Windows Server 2012 Hyper-V, 2012 R2 Hyper-V
Operation Management Client	Internet Explorer® 9, 10, 11
	Firefox ESR 60, ESR 68
	Microsoft Edge 25, 42, 44
	Google Chrome 60, 75
	Chrome® 47, 50 (Android®)
	Safari 8, 9 (iOS)
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:
	www.fujitsu.com/global/support/products/computing/storage/disk/supported-configrations

Installation specification

19" rackmount	Yes
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: 1,990W (2030VA)
Maximum Power Consumption	AC 200 - 240 V: 1,990W (2030VA)
Power phase	Single

	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure	2.5-inch Drive 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 540 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 21.3 x 3.5 inch	19 x 22 x 3.5 inch
	2 U	2 U	2 U	2 U
Weight	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)

Environment

Maximum Heat Generation	AC 100 - 120 V: 7,330: kJ/h
	AC 200 - 240 V: 7,330: kJ/h
Temperature (operating)	10 - 40 °C
Humidity (operating)	20 - 80 %
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0

Compliance

Product safety	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, TP TC 004/2011, CNS14336
Electromagnetic Compatibility	FCC Part-15 Class A, ICES-003 Class A, EN 55022 (2010), +AI, VCCI Class A, AS/NZS CISPR 22 Class A, CNS13438 (C6357) Class A, KN22

Compliance

Electromagnetic Immunity	EN 55024
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	https://sp.ts.fujitsu.com/sites/certificates

Warranty

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/warranty

Product Support Services - the perfect extension

Support Pack Options	Available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
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 products, solutions & services

In addition to FUJITSU ETERNUS DX60 S5, 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/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS DX60 S5, 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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