

Datasheet Fujitsu ETERNUS DX80 S2 Disk Storage System

The Flexible Data Safe for Dynamic Infrastructures.



ETERNUS DX S2 DISK STORAGE SYSTEMS

The Fujitsu second generation of ETERNUS DX disk storage systems, ETERNUS DX S2, are The Flexible Data Safe for Dynamic Infrastructures. Enterprise-proven capabilities protect data assets across all types of IT infrastructure. Redundant components, RAID protection and build-in data protection provide the highest system reliability to ensure business continuity is maintained.

ETERNUS DX S2 models are comprehensive disk storage platforms with superior scalability to address the demands of intensive data growth and highest performance. Free choice of modular disk storage and state-of-the-art connectivity across the entire model range delivers maximum configuration flexibility allowing choice in performance and TCO. Data-in-place upgrade options are also available throughout the system's lifecycle to ensure maximum investment protection.

The unified ETERNUS SF storage management software enables single point administration, easy data protection and efficient operation across the entire ETERNUS DX range. In virtualized IT environments in particular, ETERNUS SF perfectly integrates the powerful ETERNUS DX disk storage with minimal administration effort.

ETERNUS DX80 S2

The ETERNUS DX80 S2 with Intel® Xeon® processors is a reliable and flexible disk storage system for medium-sized IT environments. It offers an outstanding price/performance ratio and is easy to manage, thus reducing operational effort. It provides remarkable scalability with storage capacity of up to 480 TB, thus offering enough headroom for future growth. The flexible support for different network connectivity and disk types (SAS, Nearline SAS and SSD) provides a choice between cost and performance optimization. The ETERNUS DX80 offers Thin Provisioning allowing a more cost-efficient use of storage capacity right from the start. Data-in-place upgrades lead seamlessly to the next higher ETERNUS DX system, thus ensuring flexibility and investment protection. The enclosed ETERNUS SF Express software reduces administration work and provides data safety functionality.













Green Product

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

Features and benefits

Main features	Benefits
Data center functionality already in the Entry class	 Flexible configuration of drives and connectivity; enables flexible balancing of performance, capacity and costs Ensures data safety and high availability through comprehensive features like encryption, redundancy, copy functions and snapshots Efficient operations through technologies such as Tiering, Thin Provisioning and Eco-mode
Richly featured management suite at no extra costs	 Free of charge ETERNUS SF Express Storage Management Snapshot functionality already included Easy and efficient operation
Unique and consistent family concept	 Seamless and fully compatible product family of disk storage systems with uniform system components and unified management software Family concept reduces operations, maintenance, migration and training efforts as well as costs Migration path to the next bigger model

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Technical details

General Specification		2.5" Base Model		3.5" Bas	e Model
	_	Single Controller	Dual Controller	Single Controller	Dual Controller
Supported RAID Levels			0, 1, 1+0	, 5, 5+0, 6	
Host Interfaces				16/8/4/2 Gbit/s)	
				0 Gbit/s)	
			iSCSI (10 Gbit/s)	or iSCSI (1 Gbit/s)	
			<u> </u>	3 Gbit/s)	
Number of controllers		1	2	1	2
Number of host interfaces		2/4 ports	4/8 ports	2/4 ports	4/8 ports
- Notes				ions are possible.	
Number of hosts				1,024	
Cache memory capacity		2 GB	4 GB	2 GB	4 GB
Number of drive enclosures	5	Max. 4 (2.5") / Max. 9 (3.5")			
Number of drives					
Storage capacity	Physical capacity	Max. 480.0 TB			
	Logical capacity			56.0 TB	
Drives 3.5-inch	SAS disk drives	600 GB/450 GB/300 GB (15,000 rpm)			
	Nearline SAS disk drives	4 TB/3 TB/2 TB/1 TB (7,200 rpm)			
	SSD (Solid State Drives)	800 GB/400 GB/200 GB/100 GB			
- Notes		3.5" drives are available only for 3.5" drive enclosures.			
2.5-inch	SAS Non-Encrypting drives				
	SAS Self-Encrypting drives	900 GB/600 GB/450 GB/300 GB (10,000 rpm)			
	Nearline SAS disk drives	1 TB (7,200 rpm)			
	SSD (Solid State Drives)			/200 GB/100 GB	
- Notes		2.5" drives are available only for 2.5" drive enclosures.			
Drive interface		Serial Attached SCSI (6 Gbit/s)			
Back-End Disk Connectivity		1 pair of four-lane x 6 Gbit/s Serial Attached SCSI buses (SAS 2.0 wide)			
Redundancies	RAID Controller	No	Yes	No	Yes
	Fan	Yes	Yes	Yes	Yes
	Power Supply	Yes	Yes	Yes	Yes
Number of LUN				2,048	
LUN capacity		Max. 128 TB			
Number of Snapshots	Standard (built-in)	8			
	Maximum (option)	1,024			
- Note		Local Copy License must be purchased to maximize the number of Snapshot			
Number of copy generation	ns .	256			
Remote Copy feature			N	lo	
		2 = 11 =		II -	
Installation Specification		2.5" Bas	e Model	3.5" Bas	e Model

Installation Specification		2.5" Base Model	3.5" Base Model
Dimensions (Standard)	Controller enclosure (CE)	CE: 482 × 645 × 88 mm (2U)	
(W x D x H)		CE: 19 × 25.4 × 3.5 inch (2U)	CE: 19 × 26.4 ×3.5 inch (2U)
	Drive enclosure (DE)	DE: 482 × 540 × 88 mm (2U)	DE: 482 × 555 × 88 mm (2U)
		DE: 19 × 21.3 × 3.5 inch(2U)	DE: 19 × 21.9x 3.5 inch (2U)
Service Area	Front	800 mm (31.5 inch) or more	
	Rear	800 mm (31.5 inch) or more	
Maximum Weight		175 kg (35 kg per single enclosure)	350 kg (35 kg per single enclosure)
		385 lb (77 lb per single enclosure)	770 lb (77 lb per single enclosure)
Installation Specification (Continued)		2.5" Base Model	3.5" Base Model

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Power	Voltage		AC 100 – 120 V / AC 200 – 240 V		
	Phase		Single		
	Frequency			/ 60 Hz	
Maximum Power Consumption	AC 100 - 120V		630 W (640 VA)	620 W (630 VA)	
		DE	570 W (580 VA)	550 W (560 VA)	
		Max	2,910 W (CE+2.5"DEx4)	5,570 W (CE+3.5"DEx9)	
			2,960 VA (CE+2.5"DEx4)	5,670 VA (CE+3.5"DEx9)	
	AC 200 - 240V		630 W (640 VA)	610 W (620 VA)	
		DE	570 W (580 VA)	550 W (560 VA)	
		Max	2,910 W (CE+2.5"DEx4)	5,560 W (CE+3.5"DEx9)	
			2,960 VA (CE+2.5"DEx4)	5,660 VA (CE+3.5"DEx9)	
Maximum Heat Generation	AC 100 - 120V		10,700 kJ/h (10,200 BTU/h)	20,300 kJ/h (19,300 BTU/h)	
	AC 200 - 240V		10,700 kJ/h (10,200 BTU/h)	20,200 kJ/h (19,200 BTU/h)	
Environmental Conditions	Temperature		10 – 40℃ (Operating)		
			50 – 104°F (Operating)		
	Humidity		20 – 80% RH (Operating)		
Altitude			3,000 m (· · · · · · · · · · · · · · · · · · ·	
Operating environment			FTS 04230 Guideline for Data	Center (installation locations)	
Management Interfaces			Ethernet (1000 Base-T / 100 Base-TX / 10	O Base-T)	
Supported protocols			SNMP (version1, 2C, 3), SMI-S 1.4		
Administration			Web-Environment, CLI (Command Line I	nterface) FTFRNIIS SF Express	
Supported OS For ETERNUS SF Ex Operation Management Server	xpress		Microsoft® Windows Server®2008 Standa	ard (32-bit) (64-bit) including R2	
,			Microsoft® Windows Server® 2008 Enter		
			Microsoft® Windows Server® 2008 Datac		
Operation Management Client			Microsoft® Windows® 7 Home Premium		
			Microsoft® Windows® 7 Professional		
			Microsoft® 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		
			Microsoft® Windows Server®2008 Stand	ard (32-bit) (64-bit)	
			Microsoft® Windows Server® 2008 Enter	, , ,	
			Microsoft® Windows Server® 2008 Datac	•	
Options					

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2.5" Base Model	3.5" Base Model	
6.6 B		
49 dB(A)		
measured with single enclosure according to ISO7779 and declared according to		
ISO9	296	
	6.6 49 di	

Warranty

Global Base Warranty 3 years

Maintenance and Support Services

The perfect extension of the product specific base warranty for optimized operation.

Recommended Service: 24 x 7 Fujitsu support for enterprise class services.

Please check your specific service level with your FUJITSU sales organization or partner.

Supported configurations

A wide range of host operating systems, servers as well as applications is supported.

For a detailed support matrix check:

http://www.fujitsu.com/global/services/computing/storage/eternus/products/diskstorage/dx-entry/supported-device/

Compliance With Standards	
Product safety	UL60950-1, CSA-C22.2 No. 60950-1, EN60950-1, IEC60950-1, GOST-R
Electromagnetic Compatibility	CNS13438(C6357) Class A, FCC CFR47 part 15 Class A, ICES-003 Class A,
	EN55022 Class A, VCCI Class A, AS/NZS CISPR22 Class A
Electromagnetic Immunity	EN55024
CE certification	Electromagnetic Compatibility Directive 2004/108/EC
	Low Voltage Directive 2006/95/EC
Environmental compliance	RoHS-compliant (Restriction of hazardous substances)
	WEEE-compliant (Waste electrical and electronic equipment)
- 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.

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Fujitsu platform solutions

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

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

www.fujitsu.com/global/services/computing/

- PRIMERGY: Industry standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/

- Interstage: Application infrastructure software
- Systemwalker: System management software

More information

Learn more about Fujitsu ETERNUS DX80 S2, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.

http://solutions.us.fujitsu.com/www/content/products/storage/ETERNUS/index.php

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 resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/qlobal/about/environment/



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