

Datasheet

Fujitsu ETERNUS DX8700 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.

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 DX8700 S2

The ETERNUS DX8700 S2 enterprise disk storage system, with Intel® Xeon® processors is purpose-built for large enterprises. Enterprises are no longer forced to anticipate future capacity demand levels and to select a specific high-end model with limited data-capacity range. The unique modular architecture offers flexibly scaling according to business needs. With minimum initial costs customers can start with a two controller module system and four drive enclosures. Maximum performance with up to 128 front-end host ports can be obtained by scaling up to eight controller modules. FC, FCoE and iSCSI host interfaces can operate in mixed configurations.

Software license pricing is based on the number of controllers used only. This transparent licensing model allows gradual capacity upgrading to the maximum drive count without resulting in capacity based price increases. Fujitsu's Flexible Data Management concept enables a higher level of automation for storage tiering, including support for SAS, Nearline SAS and SSD drives that ensure optimum service levels while reducing the overall total cost of storage. System robustness based on redundant components and local data copy options ensure high availability for today's non-stop business. Multiple remote replication options protect all valuable data assets against site outages.



**Green
Policy
Innovation**

SUPER Green Product

This product has the top-level environmental factor in the comparison with our previous product or product in market.

Features and benefits

Main features	Benefits
High end storage for large data centers	<ul style="list-style-type: none">■ Fail-safe system design reduces downtime to a minimum■ Multi-dimensional scalability in terms of speed, capacity and availability provides the headroom for huge data growth■ High level of automation optimizes operational efficiency
Supports flexible growth without high pre-investments	<ul style="list-style-type: none">■ Unique modular architecture that can be flexibly expanded■ Start with minimum initial costs an grow flexibly with minimum fix-stepped costs■ No hidden software costs through simple, fixed-price license scheme
Unique and consistent family concept	<ul style="list-style-type: none">■ 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

Technical details

GENERAL SPECIFICATION

DX8700 S2

Supported RAID Levels		0, 1, 1+0, 5, 5+0, 6	
Host Interfaces		Fibre Channel (16/8/4/2Gbit/s) FCoE (10Gbit/s) iSCSI (10/1Gbit/s)	
Number of controllers		2 - 8	
Number of host interfaces		4 – 128 ports	
- Notes		Mixed configurations are possible.	
Number of hosts		Max. 8,192	
Cache memory capacity		Max. 1,152 GB	
Number of drive enclosures		Max. 128 (3.5", 2.5")	
Number of drives		Max. 3,072 (2.5") / Max. 1,536 (3.5")	
Storage capacity	Physical capacity	Max. 6,144.0 TB	
	Logical capacity	Max. 4,785.3 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
	2.5-inch	SAS Non-Encrypting drives	900 GB/600 GB/450 GB/300 GB (10,000 rpm), 300GB (15,000 rpm)
		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)	800 GB/400 GB/200 GB/100 GB
Drive interface		Serial Attached SCSI (6Gbit/s)	
Back-End Disk Connectivity		32 pairs of four-lane x 6 Gbit/s SAS buses (SAS 2.0 Wide)	
Redundancies		RAID Controller, Fan, Power Supply	
Number of LUN		Max. 65,535	
LUN capacity		Max. 128TB	
Number of Snapshots		Max. 32,768	
Number of copy generations		256	
Remote Copy feature		Yes	

Installation Specification

Dimensions (W x D x H)	Controller enclosure (CE)	482 × 940 × 840 mm (19 x 37.0x 33.1 inch) (19U)
	2.5" Drive enclosure (DE)	482 × 540 × 88 mm (19 x 21.3 x 3.5 inch) (2U)
	3.5" Drive enclosure (DE)	482 × 555 × 88 mm (19 x 21.9 x 3.5 inch) (2U)
Service Area	Front	850 mm (31.5 inch) or more
	Rear	850 mm (31.5 inch) or more
Maximum Weight	Controller enclosure	225 kg
	2.5" Drive enclosure	35 kg (77 lb)
	3.5" Drive enclosure	35 kg (77 lb)
Power	Voltage	AC 200 - 240 V
	Phase	Single
	Frequency	50 Hz / 60 Hz
Maximum Power Consumption	Max configuration	76,450 W (78,030 VA)
Maximum Heat Generation		281,350 kJ/h (267,850 BTU/h)
Environmental Conditions	Temperature	10 - 35°C (Operating)
		50 - 95°F (Operating)
	Humidity	20 - 80% RH (Operating)
Altitude		3,000 m (10,000 ft.)

Installation Specification (Continued)

Operating environment	FTS 04230 Guideline for Data Center (installation locations)
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Management

Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.4
Administration	Web-Environment, CLI (Command Line Interface)

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/dx8000/supported-device/>

Compliance With Standards

Product safety	UL60950-1, CSA-C22.2 No. 60950-1, EN60950-1, IEC60950-1, GOST-R
Electromagnetic Compatibility	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 electronical 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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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 DX8700 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/global/about/environment/



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Contact

FUJITSU AMERICA, INC.
Address: 1250 East Arques Avenue, Sunnyvale, CA
94085-3470, USA
Tel: 800 3180 or 408 746 6000
Web: <http://solutions.us.fujitsu.com>
Contact Form: <http://solutions.us.fujitsu.com/contact>
Have a question? Email us at: AskFujitsu@us.fujitsu.com