

Datasheet Fujitsu ETERNUS DX60 S2 Disk Storage System

The Economy Storage



ETERNUS DX S2 DISK STORAGE SYSTEMS

Fujitsu's 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 DX60 S2

Delivering reliable operation at an affordable price makes ETERNUS DX60 S2 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 of up to 72 TB offering good headroom for future growth. The perfect storage solution for consolidation of distributed data and for smaller server virtualization projects.









Green Product

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

Features and benefits

Main features	Benefits
Reliable operation at an affordable price	Combines affordable price-level with High performance 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 Fits perfectly to Storage consolidation starters & virtualization newcomers Medium capacity requirements with moderate growth rates
Free of charge ETERNUS SF Express Storage Management	 Comes with a richly featured management suite at no extra costs Single point administration Easy and efficient operation

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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
RAID Levels				0, 1, 1+0	, 5, 5+0, 6	
Host Interface	es		Fibre Channel (4/2/1 Gbit/s)			
				· ·	s / 100Mbit/s)	
					Gbit/s)	
Number of co			1	2	1	2
Number of ho			2	4	2	4
Number of ho	osts	Fibre Channel	Max. 32	Max. 64	Max. 32	Max. 64
		iSCSI	Max. 32	Max. 64	Max. 32	Max. 64
		SAS	Max. 2	Max. 4	Max. 2	Max. 4
Cache memo			1 GB	2 GB	1 GB	2 GB
	ive enclosures		_		Мах	
Number of dr			Max. 24 (,	Max. 24 (3.5	<u>'</u>
		Physical capacity			Max. 7	
		Logical capacity	Max. 16		Max. 5	3.4 TB
Drives	3.5-inch	SAS disk drives			00 GB (15,000 rpm)	
		Nearline SAS disk drives			B (7,200 rpm)	
- Notes					nly for 3.5" drive enclo	
	2.5-inch	SAS disk drives			B/300 GB (10,000 rpn	
- Notes			2.5" drives are available only for 2.5" drive enclosures.			osures.
Drive interfac			Serial Attached SCSI (3 Gbit/s)			
Redundancie	S	RAID Controller	No	Yes	No	Yes
		Fan	Yes	Yes	Yes	Yes
		Power Supply	Yes	Yes	Yes	Yes
Number of LU			Max. 512			
LUN capacity			Max. 32 TB			
Number of Snapshots Standard (built-in)		8				
		Maximum (option)			12	
- Note			Local Copy License must be purchased to maximize the number of Snapshots			
	py generation	s	8			
Remote Copy	feature				No	

Installation Specification		2.5" Base Model	3.5" Base Model	
Dimensions (W x D x H)	Standard	483 x 650 x 88mm (2U)		
		19 x 25.5 x 3.5 inch [2U]		
	Maximum	483 × 650 × 88 mm (2U)	483 × 650 ×176 mm (4U)	
		19 × 25.5 × 3.5 inch [2U]	19 × 25.5 × 7 inch [4U]	
Service Area	Front	800 mm (31.5 inch) or more		
	Rear	800 mm (31.5 inch) or more		
Maximum Weight		35 kg (35 kg per single enclosure)	70 kg (35 kg per single enclosure)	
		77.2 lb (772. lb per single enclosure)	154.4 lb (772. lb per single enclosure)	
Power	Voltage	AC 100 – 120 V / AC 200 – 240 V		
	Phase	Single		
Frequency		50 Hz	/ 60 Hz	

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Installation Specification (Co			2.5" Base Model	3.5" Base Model	
Maximum Power Consumption AC 100 - 120V		CE	510 W (530 VA)	440 W (450 VA)	
		DE	_	370 W (380 VA)	
		Max	-	810 W (830 VA)	
	AC 200 - 240V	CE	500 W (520 VA)	430 W (440 VA)	
		DE	_	370 W (380 VA)	
		Max	_	800 W (820 VA)	
Maximum Heat Generation	AC 100 - 120V		1,840 kJ/h (1,740 BTU/h)	2,920 kJ/h (2,760 BTU/h)	
	AC 200 - 240V		1,800 kJ/h (1,700 BTU/h)	2,880 kJ/h (2,720 BTU/h)	
Environmental Conditions	Temperature		10 - 40°C (0		
			50 – 104°F (Operating)		
	Humidity		20 – 80% RH (Operating)		
Altitude			3,000 m		
			10,000 ft.		
Operating environment			FTS 04230 Guideline for Data (
Operating environment link			http://docs.ts.fujitsu.com/dl.aspx?id=e48		
<u> </u>			перлиосызларовления в сто	13001 4027 4010 0104 30303201201	
Supported RAID Levels					
RAID 0			Data striping on several disk drives, not re	ecommended	
RAID 1			Mirrored disk drives		
RAID 1+0			Data mirroring, then striping of the data	over several disk drives	
RAID 5			Striping with distributed parity		
RAID 5+0			RAID 5 arrays, striped again over several drives		
RAID 6			Striping with distributed double parity		
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 In	terface), ETERNUS SF Express	
Supported OS For ETERNUS SF	Express				
Operation Management Servi			Microsoft® Windows Server®2008 Standar	d (32-bit) (64-bit) including R2	
,			Microsoft® Windows Server® 2008 Enterp		
			Microsoft® Windows Server® 2008 Datace		
Operation Management Clien	nt		Microsoft® Windows® 7 Home Premium	- () () 9	
.,			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 Vista® Oitimate Windows® XP Home Edition		
			Windows® XP Professional		
				.d /22 b;r) /C/ b;r)	
			Microsoft® Windows Server® 2008 Standar		
			Microsoft® Windows Server® 2008 Enterp		
			Microsoft® Windows Server® 2008 Datace	nter (32-bit) (64-bit)	
Options					
License			ETERNUS SF Local Copy License		

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Noise Emission	2.5" Base Model	3.5" Base Model
Sound Power Level (LWAd)	5.9 B	6.0 B
Sound Pressure Level (LpAm)	42.0 dB(A)	43.5 dB(A)
- Notes	measured with single enclosure according to ISO7779 and declared according to	
	ISO9	296

Warranty

Global Factory Warranty 2 years

Maintenance and Support Services

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

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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More information

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 DX60 S2, please contact your Fujitsu sales representative, 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 resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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FUJITSU Limited Website: www.fujitsu.com/eternus/ 2011-09-14 WW-FN