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 96 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 evalu

Green Policy

nnovation

company's original evaluation standard which followed global environmental measures.









Features and benefits

Main features

Reliable operation at an affordable price

Benefits

Combines affordable price-level with

- High performance
- Rich data safety functionality
- Enterprise proven capabilities already in entry-level storage

Easy to install, configure, operate and maintain
 Fits perfectly to

- Storage consolidation starters & virtualization newcomers
- Medium capacity requirements with moderate growth rates
- Comes with a richly featured management suite at no extra costs
- Single point administration
- Easy and efficient operation

Free of charge ETERNUS SF Express Storage Management

Ideal for small and medium-sized IT environments

Technical details

General Specification		2.5" Base Model		3.5″ Bas	e Model	
			Single Controller	Dual Controller	Single Controller	Dual Controlle
RAID Levels					, 5, 5+0, 6	
Host Interfac	Host Interfaces				l (4/2/1 Gbit/s)	
				•	s / 100Mbit/s)	
				•	Gbit/s)	
Number of co	ontrollers		1	2	1	2
	ost interfaces		2 ports	4 ports	2 ports	4 ports
Number of h	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
	rive enclosures		_	-	Max	
Number of d	rives		Max. 24	· · ·	Max. 24 (3.5	
Storage capa	city	Physical capacity	Max. 24.0 TB		Max. 96.0 TB	
		Logical capacity	Max. 1		Max. 7	1.2 TB
Drives	3.5-inch	SAS disk drives			00 GB (15,000 rpm)	
		Nearline SAS disk drives			1 TB (7,200 rpm)	
- Notes			3.5" drives are available only for 3.5" drive enclosures.			
	2.5-inch	SAS disk drives	90		B/300 GB (10,000 rpn	n)
		Nearline SAS disk drives			200 rpm)	
- Notes			2.5″ dri		nly for 2.5" drive enclo	osures.
Drive interfa					d 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 L				-	. 512	
LUN capacity			Max. 32 TB			
Number of S	napshots	Standard (built-in)	8			
		Maximum (option)			12	
- Note Local Copy License must be purchased to m		to maximize the nur	nber of Snapshot			
	opy generation	IS			8	
Remote Copy	feature			١	10	

Installation Specification		2.5" Base Model	3.5" Base Model		
Dimensions (W x D x H) Standard		483 x 650 x	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	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	Sir	ngle		
	Frequency	50 Hz	50 Hz / 60 Hz		

Installation Specification (Cor	ntinued)		2.5" Base Model	3.5" Base Model
Maximum Power Consumption AC 100 - 120V CE		510 W (520 VA)	440 W (450 VA)	
		DE	-	370 W (380 VA)
		Max	—	810 W (820 VA)
	AC 200 - 240V	CE	500 W (510 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 (Operating)	
			50 – 104°F (Operating)	
	Humidity		20 – 80% RH	l (Operating)
Altitude			3,000 m (10,000 ft.)
Operating environment			FTS 04230 Guideline for Data Center (installation locations)	
Operating environment link		http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe		

Supported RAID Levels	
RAID 0	Data striping on several disk drives, not recommended
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 Interface), ETERNUS SF Express

Operation Management Server	Microsoft® Windows Server®2008 Standard (32-bit) (64-bit) including R2	
	Microsoft [®] Windows Server [®] 2008 Enterprise (32-bit) (64-bit) including R2	
	Microsoft [®] Windows Server [®] 2008 Datacenter (32-bit) (64-bit) including R2	
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 Standard (32-bit) (64-bit)	
	Microsoft [®] Windows Server [®] 2008 Enterprise (32-bit) (64-bit)	
	Microsoft [®] Windows Server [®] 2008 Datacenter (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 accordi	ng to ISO7779 and declared according to
	ISOS	9296
Warranty		

Global Base Warranty

3 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.

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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