FUJITSU

DATASHEET

FUJITSU ETERNUS DX60 S2 DISK STORAGE SYSTEM

ETERNUS DX S2 DISK STORAGE SYSTEMS

The second generation of Fujitsu 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 DX60 S2 with Intel® Xeon® processor is an affordable disk storage system for small and midsize environments. ETERNUS DX60 S2 scales flexibly up to 24 disk drives. Different 2.5 inch, 3.5 inch SAS and high capacity Nearline SAS drive types are supported in mixed configurations, to enable efficient implementation of a tiered storage environment. Non-disruptive capacity upgrades are possible just by adding disks or a second enclosure. Customers can choose from FC, iSCSI, or SAS, host interfaces.

ETERNUS SF Express management software provided with ETERNUS DX60 S2 simplifies monitoring, management, and data copy tasks, for single or multiple ETERNUS DX disk storage systems, from a central console.







MAIN FEATURES	BENEFITS
The Flexible Data Safe for Dynamic Infrastructures	 Enterprise proven capabilities to protect all data assets Redundant components and RAID protection provide highest reliability
Innovative ETERNUS SF Storage Management	 Unified storage management across the entire ETERNUS DX range Single point administration, easy data protection and efficient operation Powerful disk storage united with minimal administration efforts in virtualized environments

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GENERAL SPECIFICAT	TON	3.5" BASE MODE	iL	2.5" BASE MODE	L
		SINGLE	DUAL	SINGLE	DUAL
		CONTROLLER	CONTROLLER	CONTROLLER	CONTROLLER
CPU Frequency				800 MHz	
RAID Levels			0, 1,	1+0, 5, 5+0, 6	
Host Interfaces		Fibre Channel (4/2/1Gbit/s)			
				CSI (1 Gbit/s)	
			SA	AS (3Gbit/s)	
Number of controlle	rs	1	2	1	2
Number of host inte	rfaces	2	4	2	4
Number of hosts	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 memory capa		1 GB	2 GB	1 GB	2 GB
Number of drive enc	losures			. 1 (3.5" only)	
Number of drives			CE + 3.5" DE)		(2.5" CE)
Storage capacity Physical capacity		Max. 72.0 TB Max. 21.6 T			
	Logical capacity	Max. 53.4 TB Max. 16.0 TB			6.0 TB
Drives 3.5-inc	ch SAS disk drives	600 GB/450 GB/300 GB (15,000 rpm)			
	Nearline SAS disk drives	3 TB/2 TB/1 TB/750 GB (7,200 rpm)			
	- Notes	3.5" drives are available only for 3.5" drive enclosures.			
2.5-ind				50 GB/300 GB (10,000 rp	om)
	- Notes	2.5" drives are ava	ailable only for 2.5" drive	e enclosures.	
Drive interface				ached SCSI (3Gbit/s)	
Redundancies	RAID Controller	No	Yes	No	Yes
	Fan	Yes	Yes	Yes	Yes
	Power Supply	Yes	Yes	Yes	Yes
Number of LUN				Max. 512	
LUN capacity		Max. 32 TB			
Number of Snapshots	, ,	8			
	Maximum (option)	512			
	- Note Remote Copy feature				Snapshots
Number of copy gen				8	
Remote Copy feature)			No	

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INSTALLATION SPECIFICATION	N		3.5" BASE MODEL	2.5" BASE MODEL	
Dimensions (W x D x H)	Standard		483 x 650 x 88mm (19 x 25.5 x 3.5 inch) [2U]		
	Maximum		483 x 650 x 177mm	483 x 650 x 88 mm (2U)	
			(19 x 25.5 x 7 inch) [4U]	19 x 25.5 x 3.5 in. (2U)	
Service Area Front Rear			800 mm (31.5 inch) or more		
		800 mm (31.5 inch) or more			
Maximum Weight			70 kg (35 kg per single enclosure)	35 kg (35 kg per single enclosure)	
			155 lbs. (77.2 lbs. per single enclosure)	77.2 lbs. (77.2 lb per single enclosure)	
Power	Voltage		AC 100 – 120	V / AC 200 – 240 V	
	Phase		Single		
	Frequency		50 Hz / 60 Hz		
Maximum Power	AC 100 - 120V	CE	510 W (520 VA)	440 W (450 VA)	
Consumption					
		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 (Operating)		
Altitude			3,000 m		
		10,000 ft.			

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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 distribute	ed double parity			
MANAGEMENT					
Interfaces	Ethernet (1000 Base-	T / 100 Base-TX / 10 Base-T)			
Supported protocols	SNMP (version1), SMI				
Administration	, , , , , , , , , , , , , , , , , , , ,	(Command Line Interface), ETER	RNUS SF Express		
		. (
SUPPORTED OS FOR ETERNUS SF E					
Operation Management Server		Microsoft® Windows Server® 2008 Standard (32-bit) (64-bit) including R2			
		Server® 2008 Enterprise (32-bit)			
		Server® 2008 Datacenter (32-bit)	(64-bit) including R2		
Operation Management Client	Microsoft® Windows® 7 Home Premium				
	Microsoft® Windows®				
	Microsoft® Windows®	7 Ultimate			
	Windows Vista® Home	e Basic			
	Windows Vista® Home	Premium			
	Windows Vista® Busin	ess			
	Windows Vista® Enter	prise			
	Windows Vista® Ultima	ate			
	Windows® XP Home Edition				
	Windows® XP Profess	ional			
	Microsoft® Windows S	Server® 2008 Standard (32-bit) (6	64-bit)		
	Microsoft® Windows S	Server® 2008 Enterprise (32-bit)	(64-bit)		
	Microsoft® Windows S	Server® 2008 Datacenter (32-bit)	(64-bit)		
OPTIONS			1051 10 11		
License		ETERNUS	SF Local Copy License		
NOISE EMISSION		3.5" BASE MODEL	2.5" BASE MODEL		
Sound Power Level (LWAd)		6.0 B	5.9 B		
Sound Pressure Level (LpAm)		43.5 dB(A)	42.0 dB(A)		
Soulia Liessaie Feaci (Fraili)		43.3 UD(A)	42.0 UD(A)		

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WARRANTY	
Global Factory Warranty	2 years
MAINTENANCE AND SUPPORT SERVI	CES
The perfect extension of the product spec	cific base warranty for optimized operation.
Please check your specific service level v	vith your FUJITSU sales organization or partner.
SUPPORTED CONFIGURATIONS	
A wide range of host operating system	ems, servers as well as applications is supported.
For a detailed support matrix check:	
http://www.fujitsu.com/global/services/co	mputing/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)
- Note	s 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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ABOUT FUJITSU AMERICA

Fujitsu America, Inc., is a leading ICT solutions provider for organizations in the U.S., Canada and the Caribbean. Fujitsu enables clients to meet their business objectives through integrated offerings including consulting, systems integration, managed services and outsourcing for enterprise applications, data center and field services operations, based on server, software, storage and mobile technologies. Fujitsu provides industry-oriented solutions for manufacturing, retail, healthcare, government, education, financial services and communications sectors.

For more information, please visit: http://solutions.us.fujitsu.com/.

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

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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