

DATA SHEET

ETERNUS DX8000 Series Reliable Storage Solutions

Issue November 2009

Pages 3

ETERNUS DX8400/DX8700 disk storage systems continue the Fujitsu success story in the enterprise segment. This generation of RAID systems offers a high degree of data storage reliability. In combination with proven software delivering, ETERNUS DX8400/DX8700 disk storage systems offer the sturdiness you need in dynamic infrastructures. It offers multi-dimensional scalability and the capability to maximize the pooling of storage resources. A rapid increase in storage capacity will be no problem, since controller power, cache and host interfaces can be easily increased. ETERNUS DX8400/DX8700 disk storage systems are suitable for a large range of applications. With their Eco-mode which uses the MAID technology, ETERNUS DX8400/DX8700 disk storage systems are some of the most energy efficient storage systems in their class.



Main features	Benefits
RAID Migration: Dynamic data transfer in running operations from LUN to LUN without interrupting operations	<ul style="list-style-type: none"> ■ Move data to fast or low-priced disks drives according to access frequency and importance ■ Use the most appropriate RAID level even if requirements change ■ Simplifies the ability to leverage new technology
Data Block Guard: Data Block Guard appends check codes to every data block and verifies them at multiple checkpoints.	<ul style="list-style-type: none"> ■ Helps to ensure maximum data integrity on disk in cache and in between ■ Guarantees consistency of all stored data
Redundant Copy: Preventative disk drive replacement, based on error threshold monitoring, ensures data redundancy	<ul style="list-style-type: none"> ■ Solves the problem of dangerously increasing recovery times within a RAID group which comes from the increasing capacity of disks drives (1 TB SATA disk drives)
Data Encryption: Optional encryption of the data on the RAID system with native 128-bit AES (Advanced Encryption Standard)	<ul style="list-style-type: none"> ■ Protection of sensitive data upon removal from storage system ■ Simple and cost effective
Eco-mode with MAID technology: (MAID = Massive Array of Idle Disks) Disk drives can be shut down by a scheduled spin-stop period or by auto spin-down	<ul style="list-style-type: none"> ■ Eco-mode conserves energy and costs
8Gbit/s Fibre Channel connection	<ul style="list-style-type: none"> ■ Higher speeds, greater storage consolidation

TECHNICAL DETAILS

ETERNUS DX8000 SERIES

General specification			ETERNUS DX8400	ETERNUS DX8700
Host interface			Fibre Channel (Max 8 Gbit/s) or iSCSI (1 Gbit/s) or OCLINK (Max.17MB/s) or FCLINK (Max. 2Gbit/s)	
Number of controllers (Max.)			4	8
Number of host interfaces	Fibre Channel		4 - 64	16 - 128
	iSCSI		4 - 32	4 - 64
	OCLINK		4 - 32	4 - 64
	FCLINK		4 - 32	4 - 64
Cache memory capacity			Max. 256GB	Max. 512GB
RAID levels			0, 1, 1+0, 5, 6	
Storage capacity	UNIX / Industry Standard Server	Physical capacity	Max. 1,004.0TB	Max. 2,728.0TB
		Logical capacity	Max. 783.3TB	Max. 2,136.9TB
	Global server	Physical capacity	Max. 49.6TB	Max. 49.6TB
		Logical capacity	Max. 22.5TB	Max. 22.5TB
Number of disk drives (Max.)			1,020	2,760
Drives	HDD	UNIX / Industry Standard Server	FC disk drives (15,000rpm)	600GB/450GB/300GB
			Nearline SATA disk drives (7,200rpm)	1TB/750GB/500GB
	Global server	FC disk drives (15,000rpm)	146GB/73GB/36GB	
		UNIX / Industry Standard Server	400GB/200GB	
	SSD(Solid State Drives)	Global server	200GB/146GB/73GB	
Drive interface			Fibre Channel (4Gbit/s)	
Installation specification				
Dimensions (W × D × H) (with expansion cabinet)			740 x 995 x 1,800 mm (3,840 x 995 x 1,800 mm)	1,360 x 995 x 1,800 mm (10,040 x 995 x 1,800 mm)
Service Area			Front: 850mm or more, Rear: 850mm or more, Left: 50mm or more, Right: 0mm	
Maximum Weight			4,230 kg	10,930 kg
Power	Voltage		AC 200 - 240 V	
	Phase		Single	
	Frequency		50 Hz / 60 Hz	
Maximum Power Consumption			36,700W (39,500VA)	96,400W (103,700VA)
Maximum Heat Generation			132,200KJ/H	347,100KJ/H
Environmental Conditions	Temperature		5 – 35°C (Operating)	
	Humidity		20 – 80% RH (Operating)	

Supported RAID levels

RAID 0	Data striping on several disk drives
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 6	Striping with distributed double parity

Management

Interfaces:	100BASE-TX/10BASE-T
Supported protocols:	SNMP
Administration	Web-Environment

Compliance with standards

Safety, Quality and Environmental Standards	CSA60950-1, UL60950-1, EN60950-1, IEC 60950-1, ISO9001, ISO14001, GOST-R,
Electromagnetic Compatibility	FCC Class A, CE Mark, EN55022 Class A, VCCI Class A(for Japan), AS/NZS CISPR 22 Class A (for Australia/New Zealand)
Electromagnetic Immunity	EN55024

For more product information please go to <http://www.fujitsu.com/eternus>

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. Fujitsu ETERNUS DX8000 series surpasses the highest environmental regulations within Fujitsu and are labeled as Green Product. Please find further information at <http://www.fujitsu.com/global/about/environment/>

