

Data Sheet Fujitsu ETERNUS DX100 S3 Disk Storage System

The all-in-one storage system for SMBs or subsidiaries



ETERNUS DX - Business-centric Storage

Combining leading performance architecture with automated quality of service management the Fujitsu Storage ETERNUS DX series aligns storage resources with business priorities, thus enabling higher system utilization and delivering increased system consolidation capabilities and a faster ROI. Unified scalable entry-level and midrange systems, a seamless family concept enabling system upgrades and ETERNUS SF, the unified management suite across the product line, reduce operational and migration costs. ETERNUS SF provides enterpriseclass functionalities in the entry and midrange class and allows flexible disaster recovery concepts for the different model sizes, thus decreasing investment costs.

ETERNUS DX100 S3

The scalable and unified Fujitsu Storage ETERNUS DX100 S3 delivers enterprise-class functionality to small and medium-sized companies and subsidiaries with an excellent price/performance ratio. It is the perfect solution when consolidating data for server virtualization, e-mail, databases and business applications as well as centralized file services. Simple, intuitive system management, highly flexible network connectivity and the option of field upgrades to higher system classes significantly reduce operational and migration costs. The ETERNUS DX family architecture lets customers benefit from software options, such as thin provisioning, automatic storage tiering and quality of service management even as early as the entry-level class. This all contributes to better business support.









Features & Benefits

Main Features	Benefits
Excellent price-performance in the entry-class	
	 Performance and capacity headroom enable data consolidation for server virtualization, e-mail, databases and business applications in one system High scalability within the system and upgrade options to bigger systems support high data increases at low costs of growth and ensure investment protection
Enterprise-class management functions in the entry class	
	Richly featured ETERNUS SF Express management suite at no extra
	COST
	 Intelligent snapshot functionality for backup already included Easy and efficient operation with a minimum of administration efforts
Truly unified architecture	
may annied dicinectate	 Unified SAN and NAS access drive system utilization improving ROI Unified management functions across the entire product line result in operational efficiency Unified connectivity supports a large range and many combinations of networking types Unified architecture allows flexible combinations of 2.5" and 3.5" disk types

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Technical details

General system information						
	2.5-inch Controller Enclosure 3.5-inch Controller Enclosure					
No. of controllers	1/2					
No. of host interfaces	2/4/8 ports [FC, iSCSI, FCoE, SAS, Ethernet(10Gbit/s)], 4/8/16 ports [Ethernet(1Gbit/s)]					
Max. cache capacity	8 GB (block) / 8 GB + 8 GB (block + file)					
Max. no. of drives	144					
Max. no. of drive enclosures	10					
Note	5 with all 2.5" DE, 10 with all 3.5" DE, 2 with HD-DE or mixture of DEs up to Max no. Drives					
Redundancies	RAID Controller (in 2-controller configuration)					
	Fan					
	Power supply					
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6					
Host interfaces	Fibre Channel (16 Gbit/s, 8 Gbit/s, 4 Gbit/s)					
	FCoE (10 Gbit/s)					
	iSCSI (10 Gbit/s, 1 Gbit/s)					
	Ethernet (10 Gbit/s, 1 GBbit/s)					
	SAS(6 Gbit/s, 3 Gbit/s) - available in April 2014					
Mixed host interfaces	Yes 1027					
Max. no. of hosts	1024					
Supported NAS protocols	CIFS (SMB 2.0), NFSv2, NFSv3, NFSv4					
Max. storage capacity - physical	576 TB					
Drive Type	2.5-inch, SAS, 15,000 rpm (300 GB)					
	2.5-inch, SAS, 10,000 rpm (900 GB / 600 GB / 300 GB)					
	2.5-inch, SAS (self-encrypting), 10,000 rpm (900 GB) 2.5-inch, Nearline SAS, 7,200 rpm (1 TB)					
	2.5-inch, Neathine 3A3, 7,200 fpin (1 1b) 2.5-inch, SSD (800 GB / 400 GB)					
	3.5-inch, Nearline SAS, 7,200 rpm (4 TB / 3 TB / 2 TB)					
	3.5-inch, SSD (800 GB / 400 GB)					
Note	2.5-inch drives are available only for 2.5-inch drive enclosures and 3.5-inch drives are available only for 3.5-inch					
	enclosures.					
Max. no. of SSDs	unlimited					
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes					
Drive interface	Serial Attached SCSI (12 Gbit/s)					
Back-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)					
Max. no. of LUNs	2048					
Max. LUN capacity	128 TB					
Eco-mode	Yes					
Thin Provisioning	Yes					
Quality of Service	Yes					
Business Continuity Features						
No. of snapshots - max.	1024					
Max. no. of copy generations	512					
Data protection features	Cache Protection, Data Block Guard, Data Encryption, Dedicated Hot Spare, Disk Drive Patrol, Global Hot Spare					
Security features	HTTPS (SSL), One Time Password, RADIUS, SSH					
Options						
Automated Storage Tiering	Yes					
	Yes					
Reporting function	163					

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Field model upgrade to ETERNUS DX200 S3 to ETERNUS DX300 S3 RAD migration Yes LUN online expansion wio interruption Yes Management Interfaces Ethernet (1000 Base IT 100 Base IX 100 Base IX) Management Web based graphical user interface, CLI (Command Line Interface), ETERNUS SF Supported DX for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Datacenter Windows Server* 2012 Datacenter Windows Server* 2012 R2 Datacenter Windows Server* 2012 Batacenter Windows Server* 2018 R2 Standard Windows Vestar* Home Plemium Windows Vistar* Home Plemium Windows Server* 2018 Batacenter Windows Server* 2012 R2 Datacenter Windows Serve		
De FIERNUS DISCOIS 3 Incomplete firmware upgrade Yes	Dynamic configuration	
Non-disruptive firmware upgrade PVes INUIN online expansion with interpretation PVes INUIN online expansion with interpretation PVes INUIN online expansion with interplacement/ expansion PVes INTERPRETATION PVES	Field model upgrade	to ETERNUS DX200 S3
Non-disruptive firmware upgrade Ves		to ETERNUS DX500 S3
RAD migration Wide striping Yes Wide striping Yes Hot part replacement/ expansion Was striping Yes Hot part replacement/ expansion Was pagement Interfaces Ethernet (1000 Base T7 100 Base TX 10 Base T) Supported protocols SMNP (Persioni, Z.C, 3), MMS 11.6 Administration Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF Supported OS of ETERNUS SF Express Operation Management Server Windows Server® 2012 P.2 Datarcenter Windows Server® 2018 P.2 Datarcenter Windows Wash ** Home Briston Windows Wash ** Home Briston Windows Wash ** Home Briston Windows Wash ** Union Briston Windows Server® 2018 P.2 Datarcenter Windows Server® 2018 P.		to ETERNUS DX600 S3
LUN online expansion wito interruption Yes	Non-disruptive firmware upgrade	Yes
Wide striping **Pos** Management Interfaces **Ethernet** (1000 Base-T / 100 Base-TX / 10 Base-	RAID migration	Yes
Wide striping **Pos** Management Interfaces **Ethernet** (1000 Base-T / 100 Base-TX / 10 Base-	LUN online expansion w/o interruption	Yes
Management	_	Yes
Interface Supported protocols SUMP (version 1, 2C, 3), SMI S 1, 6 Administration Web based graphical user interface, CIT (command Line Interface), ETERNUS SP Supported OS for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Standard Windows Server* 2015 R2 Datacenter Windows Server* 2016 R2 Datacenter Windows Server* 2017 R2 Standard Windows Server* 2017 R2 Datacenter W	Hot part replacement/ expansion	Yes
Interface Supported protocols SUMP (version 1, 2C, 3), SMI S 1, 6 Administration Web based graphical user interface, CIT (command Line Interface), ETERNUS SP Supported OS for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Standard Windows Server* 2015 R2 Datacenter Windows Server* 2016 R2 Datacenter Windows Server* 2017 R2 Standard Windows Server* 2017 R2 Datacenter W	Management	
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Supported OS for ETERNUS SF Express Operation Management Server Windows Server® 2012 R2 Datacenter Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2018 R2 Enterprise Windows Server® 2008 Enterprise Windows Server® 2012 R2 Enterprise W		
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AC 200 - 240 V: 4,120 W (4,230 VA)		
	waximum Power Consumption	
Power phase Single		
	Power phase	Single

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	2.5-inch Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Controller Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure			
Dimensions (W x D x H)	482 x 645 x 88 mm	482 x 540 x 88 mm	482 x 670 x 88 mm	482 x 560 x 88 mm	482 x 980 x 176 mm			
	19 x 25.4 x 3.5 inch	19 x 21.3 x 3.5 inch	19 x 26.4 x 3.5 inch	19 x 22 x 3.5 inch	19 x 38.6 x 6.9 inch			
	2 U	2 U	2 U	2 U	4 U			
Weight	35 kg (77 lb)				95 kg (209 lb)			
Max. power consumption (AC 100 - 120V)	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)			
Max. power consumption (AC 200 - 240V)	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)			
Environmental								
Maximum Heat Generation	AC 100 - 120 V: 15,600: kJ/h							
	AC 200 - 240 V: 15,600: kJ/h							
Temperature (operating)	10 - 40 °C							
Temperature (not operating)	0 - 50 °C							
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)							
Humidity (not operating)	8 - 80 % (relative humidity, non-condensing)							
Altitude	3,000 m (10,000 ft.)							
Sound power (LWAd; 1B = 10dB)	6.7B							
Sound pressure (LpAm)	49dB(A)							
Noise notes	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296							
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)							
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe							
Compliance								
Product safety	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R							
Electromagnetic Compatibility	CNS 13438, FCC CFR 47 class A , ICES 003 Class A, EN 55022 Class A, VCCI Class A, AS/NZS CISPR 22 Class A							
Electromagnetic Immunity	EN 55024							
CE certification	2004/108/EC, 2006/95/EC, 2011/65/EC							
Approvals	CB, CE, C-Tick, FCC, GOST, GS, VCCI							
Environmental compliance	RoHS compliant, WEEE compliant							
Compliance 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.							
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates							
Warranty								
Standard Warranty	3 years							
Service level	Onsite Service							
Warranty Terms & Conditions Maintenance and Support Services - tl		,						
Support Pack Options	Globally available in major business areas:							
	9x5, Next Business Day Onsite Response Time							
	9x5, 4h Onsite Response Time							
Recommended Service	24x7, 4h Onsite Response Time							
	24x7 Fujitsu support for enterprise class services. Please check your specific service level with your FUJITSU sales							
Comitee Life mule	organization or partn							
Service Lifecycle	5 years after end of p							
Service Weblink	http://www.fujitsu.com	n/support						

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Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX100 S3, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

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Software

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More information

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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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/qlobal/about/environment



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