

Data Sheet FUJITSU Storage ETERNUS DX100 S3 Disk 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 virtualization, e-mail, databases and business 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 and business continuity 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 applications as well as centralized file services. Simple, intuitive system management, highly flexible 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, transparent failover and quality of service management even as early as the entry-level class. This all contributes to better business









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 Flexible disaster recovery with remote replication and snapshot concepts between different model sizes Intelligent snapshot functionality for backup already included Easy and efficient operation with a minimum of administration efforts 					
Truly unified architecture	 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 as well as direct server connections 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)]						
Maximum Cache Capacity	8 GB (block) / 8 GB + 8 GB (block + file)						
Extreme Cache Pool	800 GB						
Maximum Disk 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						
Redundancy	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 Gbit/s)						
	SAS (6 Gbit/s, 3 Gbit/s)						
Mixed host interfaces	Yes						
Max. no. of hosts	1,024						
Supported NAS protocols	CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv2, NFSv3						
Maximum Storage Capacity	864 TB						
Drive Type	2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB)						
	2.5-inch, SAS, 10,000 rpm (1,200 GB / 900 GB / 600 GB / 300 GB)						
	2.5-inch, SAS (self-encrypting), 10,000 rpm (1,200 GB / 900 GB)						
	2.5-inch, Nearline SAS, 7,200 rpm (1 TB)						
	2.5-inch, SSD (1,600 GB / 800 GB / 400 GB)						
	3.5-inch, Nearline SAS, 7,200 rpm (6 TB / 4 TB / 3 TB / 2 TB)						
	3.5-inch, SSD (1,600 GB / 800 GB / 400 GB)						
	HDDE, SAS, 10,000 rpm (1.2 TB)						
	HDDE, Nearline SAS, 7,200 rpm (4 TB / 3 TB / 2 TB)						
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	nch driv					
	enclosures.						
Max. no. of SSDs	unlimited						
Mixed 2.5 inch/ 3.5 inch drive enclosures							
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	2,048						
Max. LUN capacity	128 TB						
Eco-mode	Yes						
Thin Provisioning	Yes						
Quality of Service	Yes						
Business Continuity Features							
No. of snapshots - max.	1,024						
Max. no. of copy generations	512						
Remote Copy functionality	Synchronous and asynchronous						
Data protection features	Cache Protection, Data Block Guard, Data Encryption, Dedicated Hot Spare, Disk Drive Patrol, Global Hot Spare, Fa Recovery						
Security features	HTTPS (SSL), One Time Password, RADIUS, SSH						
	5 (552) 5 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5						

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Onkings						
Options Steen an Cluster	Voc					
Storage Cluster Automated QoS	Yes					
Automated Storage Tiering	Yes Yes					
Reporting function	Yes					
Note	Options can be activated via ETERNUS SF Software					
	Options can be activated via LTLKNOS SI Software					
Dynamic configuration						
Field model upgrade	to ETERNUS DX200 S3 to ETERNUS DX500 S3 to ETERNUS DX600 S3					
Non-disruptive firmware upgrade	Yes					
RAID migration	Yes					
LUN online expansion w/o interruption	Yes					
Wide striping	Yes					
Hot part replacement/ expansion	Yes					
Management						
Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)					
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.6					
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF					
Remote Support	Event notification (E-mail / SNMP / Syslog), Remote maintenance					
Supported OS for ETERNUS SF Express						
Operation Management Server	Windows Server® 2012 R2 Datacenter Windows Server® 2012 R2 Standard Windows Server® 2012 Datacenter Windows Server® 2012 Standard Windows Server® 2008 R2 Datacenter Windows Server® 2008 R2 Enterprise Windows Server® 2008 R2 Standard Windows Server® 2008 R2 Standard Windows Server® 2008 Datacenter Windows Server® 2008 Enterprise					
Operation Management Client	Windows 7 Home Premium Windows 7 Professional 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 Windows Server® 2008 Standard Windows Server® 2008 Enterprise Windows Server® 2008 Datacenter Windows Server® 2012 Standard Windows Server® 2012 Datacenter Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Datacenter					
Note	See the ETERNUS SF datasheet for further options					
Supported configurations	All major host operating systems, servers and business applications Detailed support matrix: www.fujitsu.com/global/support/products/computing/storage/disk/supported-configrations					
Installation specification						
19" rackmount	Yes					
Service Area	Front: 850 mm (33.5 inch) or more Rear: 850 mm (33.5 inch) or more					
Power voltage	AC 100 - 120 V / AC 200 - 240 V					
Power frequency	50 / 60 Hz					

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Installation specification									
Power supply efficiency	92 % (80 PLUS gold)								
Maximum Power Consumption		W (4 230 VA)							
Maximum Power Consumption		AC 100 - 120 V: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA)							
Power phase	Single								
one: phase		25. 10.	25: 16 . 11	25.10.	11: 1 0 0 .				
	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 2 U	19 x 21.3 x 3.5 inch 2 U	19 x 26.4 x 3.5 inch 2 U	19 x 22 x 3.5 inch 2 U	19 x 38.6 x 6.9 inch 4 U				
Weight	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	95 kg (209 lb)				
Maximum Power Consumption	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)				
(AC 100 - 120 V)	, 30 (, 10,	.50 (,	030 11 (0.10 11.1)	3.011 (330 11.1)	.,,500 (.,,520,				
Maximum Power Consumption (AC 200 - 240 V)	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)				
Environment									
Maximum Heat Generation	AC 100 - 120 V: 15,60	0: kJ/h							
	AC 200 - 240 V: 15,60	AC 200 - 240 V: 15,600: kJ/h							
Temperature (operating)	10 - 40 ℃								
「emperature (not operating)	0 - 50 °C	0 - 50 ℃							
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 pressure (LpAm)	49dB(A)								
Sound power (LWAd; 1B = 10dB)	6.7B								
Noise notes	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296								
Operating environment	FTS 04230 – Guidelin	e for Data Center (instal	lation specification)						
Operating environment link	http://docs.ts.fujitsu.c	om/dl.aspx?id=e4813ed	df-4a27-461a-8184-983	092c12dbe					
Туре	2.5-inch Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Controller Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure				
Compliance									
Product safety	UL 60950-1, CSA-C22	2 No. 60950-1, EN 609	50-1, IEC 60950-1, GOST	-R					
Electromagnetic Compatibility		UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R 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, 2006/9	5/EC, 2011/65/EC							
Approvals	CB, CE, C-Tick, FCC, EA	C, GS, VCCI							
Environmental compliance	RoHS compliant, WEE								
Compliance notes	There is general comp	oliance with the safety r	equirements of all Europ y regulations or for othe	pean countries and Norter reasons can be applied	h America. National d for on request.				
Compliance link		tsu.com/sites/certificates		11 -	,				
 Warranty	· ,								
Warranty period	3 years								
Service level	Onsite warranty								
Warranty Terms & Conditions	www.fujitsu.com/sup	oort							
Product Support Services - the perfe		-							
Support Pack Options	Globally available in major business areas:								
·	9x5, Next Business Day Onsite Response Time								
	9x5, 4h Onsite Response Time								
Dosammandad Comitee		24x7, 4h Onsite Response Time							
Recommended Service	24x7, Onsite Response Time: 4h								
Service Lifecycle	5 years after end of product life								
Service Weblink	www.fujitsu.com/serv	ices/product-services							

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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.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS DX100 S3, please contact your Fujitsu sales representative or 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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment



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