

Data Sheet FUJITSU Storage ETERNUS DX100 S4 Disk System

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



ETERNUS DX - Business-centric Storage

FUJITSU Storage ETERNUS DX S4 is the perfect hybrid storage for SMB, something every business can afford, with integrated and powerful features for business growth, efficiency and continuity. Latest capacity and performance optimization capabilities contribute to comprehensive business efficiency. Outstanding data-safe technologies and all-inclusive encryption guarantee uncompromised business continuity

ETERNUS DX100 S4

The scalable and unified Fujitsu Storage ETERNUS DX100 S4 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 connectivity, granular scalability and the option to upgrade to a higher system 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 support and quarantees continuity and efficiency in daily operations.



Page 1 / 6 www.fujitsu.com/eternus

Features & Benefits

Main Features	Benefits
Maximum utilization and consolidation	
	 Comprehensive scalability ready for future needs Outstanding benchmark results with ultra-low latency Unified SAN and NAS access drive system utilization improving ROI Flexible combination of flash and disk media for a broader scope of deployments
Durthers Continues and the deal.	ETERNUS SF Express management suite included at no extra cost
Business Continuity around the clock	• One live time and Change Charles to social along the social and a second
	 Replication and Storage Cluster to avoid planned or unplanned downtimes
	Transparent failover for 100% data insurance and non-stop operations
	Intelligent snapshot functionality for backup
Automated Quality-of-Service	■ System availability of 99.9999%
	 Control of applications priorities according to business needs. Automation of monitoring and adjustment Minimization of admin efforts Guaranteed service levels

Page 2 / 6 www.fujitsu.com/eternus

Technical details

General system information

No. of controllers

No. of host interfaces

Extreme Cache Pool

Maximum System Memory

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					
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6					
Host Interfaces	Fiber Channel (16Gbit/s, 8Gbit/s)					
	iSCSI (10 Gbit/s [10GBase-SR, 10GBase-CR, 10GBase-T], 1 Gbit/s)					
	Ethernet (10 Gbit/s, 1 Gbit/s)					
	SAS (12Gbit/s)					
Mixed host interfaces	Yes					
Max. no. of hosts	1,024					
Supported NAS protocols	CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv2, NFSv3, NFSv4					
Maximum Storage Capacity	2,212 TB					
Drive Type	2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB)					
	2.5-inch, SAS, 10,000 rpm (1.8 TB / 1.2 TB / 900 GB / 600 GB / 300 GB)					
	2.5-inch, SAS (self-encrypting), 10,000rpm (1.2TB)					
	2.5-inch, Nearline SAS, 7,200 rpm (2 TB / 1 TB)					
	2.5-inch, SSD (15.36TB / 7.68TB / 3.84 TB / 1.92 TB / 960GB / 400 GB)					
	2.5-inch, SSD (self-encrypting) (1.92 TB)					
	3.5-inch, Nearline SAS, 7,200 rpm (10 TB / 8 TB / 6 TB / 4 TB / 2 TB)					
	3.5-inch, Nearline SAS (self-encrypting), 7,200 rpm (4 TB)					
	3.5-inch, SSD (3.84TB / 1.92TB / 960GB / 400GB)					
	3.5-inch, SSD (self-encrypting) (1.92TB)					
	HDDE, SAS, 10,000 rpm (1.2 TB)					
	HDDE, Nearline SAS, 7,200 rpm (10 TB / 8 TB / 6 TB / 4 TB / 2 TB)					
	HDDE, SSD (3.84TB / 1.92TB)					
	HDDE, Nearline SAS(self-encrypting), 7,200 rpm (4TB)					
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 drive					
	enclosures.					
	2.5-inch 2TB, 3.5-inch 6TB/8TB/10TB Nearline SAS and 1.8TB SAS drives are Advanced Format drives.					
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	4,096					
Max. LUN capacity	128 TB					
No. of snapshots - max.	1,024					
Max. no. of copy generations Eco-mode	512 Van					
Eco-mode	Yes					
Performance management						
Automated Storage Tiering	Yes					
Quality of Service	Yes					
Automated QoS	Yes					
Wide striping	Yes					
Note	Automation options can be activated via ETERNUS SF Software					
Continuity management						
Storage Cluster	Yes					
Page 3 / 6	www.fuiitsu.com/atern					

2.5-inch Controller Enclosure

1/2

2/4/8 ports [FC, iSCSI, SAS], 8/16 ports [Ethernet(1Gbit/s)], 4/8 ports [Ethernet(10Gbit/s)]

32GB 800 GB 3.5-inch Controller Enclosure

Page 3 / 6 www.fujitsu.com/eternus

Continuity management						
Remote Copy functionality	Synchronous and asynchronous					
Note	Options can be activated via ETERNUS SF Software					
nformation security management						
Data confidentiality	Self-Encrypting Disk, Controller based Encryption, HTTPS (SSL), One Time Password, RADIUS, SSH					
Data integrity	Cache Protection, Data Block Guard, Disk Drive Patrol					
Availability management						
Fast Recovery	Yes					
Non-disruptive maintenance	Dedicated Hot Spare, Global Hot Spare					
Non-disruptive firmware upgrade	Yes					
Redundancy	RAID Controller (in 2-controller configuration), Fan, Power supply					
Hot part replacement	Yes					
Capacity management						
Thin Provisioning	Yes					
RAID migration	Yes					
LUN online expansion w/o interruption	Yes					
Reporting function	Yes					
Hot part expansion	Yes					
Management						
nterfaces	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	Microsoft Windows Server 2016 Microsoft Windows Server 2012, 2012 R2 Microsoft Windows Server 2008, 2008 R2 Red Hat Enterprise Linux 7 Red Hat Enterprise Linux 6 Red Hat Enterprise Linux 5 VMware® vSphere 6.0, 6.5 VMware® vSphere 5/ 5.1/ 5.5 Microsoft Windows Server 2016 Hyper-V Microsoft Windows Server 2012 Hyper-V, 2012 R2 Hyper-V Microsoft Windows Server 2008 Hyper-V, 2008 R2 Hyper-V Hyper-V 2.0 Oracle Linux 6					
Operation Management Client	Internet Explorer 9, 10, 11 Firefox ESR 17, 24, 31, 38, 45, 52 Microsoft Edge 25 Safari 8, 9 (iOS) Chrome 47, 50 (Android)					
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					
nstallation specification						
9" 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					
Power supply efficiency	92 % (80 PLUS gold)					
Maximum Power Consumption	AC 100 - 120 V: 4,170 W (4,280 VA)					
Maximum Power Consumption	AC 200 - 240 V: 4,170 W (4,280 VA)					

Page 4 / 6 www.fujitsu.com/eternus

Installation specification								
Power phase	Single							
	2.5-inch Controller Enclosure	3.5-inch Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure			
Dimensions (W x D x H)	482 x 645 x 88 mm 19 x 25.4 x 3.5 inch 2 U	482 x 670 x 88 mm 19 x 26.4 x 3.5 inch 2 U	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch 2 U	482 x 560 x 88 mm 19 x 22 x 3.5 inch 2 U	482 x 980 x 176 mm 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)	100 kg (220 lb)			
Maximum Power Consumption (AC 100 - 120 V)	770	670	430	340	1300			
Maximum Power Consumption (AC 200 - 240 V)	770	670	430	340	1300			
Environment								
Maximum Heat Generation		AC 100 - 120 V: 15,800: kJ/h AC 200 - 240 V: 15,800: kJ/h						
Temperature (operating)	10 - 40 °C							
Temperature (not operating)	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 – Guideline for Data Center (installation specification)							
Operating environment link	http://docs.ts.fujitsu.c	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0						
Compliance								
Product safety	UL 60950-1, CSA-C22.	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R						
Electromagnetic Compatibility	CNS 13438, FCC CFR 4	7 class A , ICES 003 Class	s A, EN 55022 Class A, V	CCI Class A, AS/NZS CISPI	R 22 Class A			
Electromagnetic Immunity	EN 55024							
CE certification	2004/108/EC, 2006/9	2004/108/EC, 2006/95/EC, 2011/65/EC						
Approvals	CB, CE, C-Tick, FCC, EA	CB, CE, C-Tick, FCC, EAC, GS, VCCI						
Environmental compliance	RoHS compliant, WEE	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	https://sp.ts.fujitsu.co	m/sites/certificates						
Warranty								
Warranty period	3 years							
Warranty type	Onsite warranty	,						
Warranty Terms & Conditions	www.fujitsu.com/supp	www.fujitsu.com/support						
Product Support Services - the perfec	ct extension							
Support Pack Options	Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 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							

Page 5 / 6 www.fujitsu.com/eternus

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX100 S4, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Built 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 offerings. This allows customers to select 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 S4, 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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Page 6 / 6 www.fujitsu.com/eternus