

# 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 guarantees continuity and efficiency in daily operations.



# Features & Benefits

Main Features	Benefits
Maximum utilization and consolidation	<ul style="list-style-type: none"><li>■ Comprehensive scalability ready for future needs</li><li>■ Outstanding benchmark results with ultra-low latency</li><li>■ Unified SAN and NAS access drive system utilization improving ROI</li><li>■ Flexible combination of flash and disk media for a broader scope of deployments</li><li>■ ETERNUS SF Express management suite included at no extra cost</li></ul>
Business Continuity around the clock	<ul style="list-style-type: none"><li>■ Replication and Storage Cluster to avoid planned or unplanned downtimes</li><li>■ Transparent failover for 100% data insurance and non-stop operations</li><li>■ Intelligent snapshot functionality for backup</li><li>■ System availability of 99.9999%</li></ul>
Automated Quality-of-Service	<ul style="list-style-type: none"><li>■ Control of applications priorities according to business needs.</li><li>■ Automation of monitoring and adjustment</li><li>■ Minimization of admin efforts</li><li>■ Guaranteed service levels</li></ul>

# 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, SAS], 8/16 ports [Ethernet(1Gbit/s)], 4/8 ports [Ethernet(10Gbit/s)]	
Maximum System Memory	32GB	
Extreme Cache Pool	1.6 TB	
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	Fibre Channel (32Gbit/s, 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 HDD	1,728 TB	
Maximum Storage Capacity SSD	2,212 TB	
Drive Type	2.5-inch, SAS, 15,000 rpm (900 GB / 600 GB / 300 GB) 2.5-inch, SAS, 10,000 rpm (2.4 TB / 1.8 TB / 1.2 TB / 900 GB / 600 GB / 300 GB) 2.5-inch, SAS (self-encrypting), 10,000rpm (2.4 TB / 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) (3.84 TB/1.92 TB/ 400 GB) 3.5-inch, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) 3.5-inch, Nearline SAS (self-encrypting), 7,200 rpm (12 TB / 8 TB / 4 TB) 3.5-inch, SSD (3.84TB / 1.92TB / 960GB / 400GB) 3.5-inch, SSD (self-encrypting) (3.84 TB/1.92 TB/ 400 GB) HDDE, SAS, 10,000 rpm (1.2 TB) HDDE, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) HDDE, SSD (3.84TB / 1.92TB) HDDE, Nearline SAS(self-encrypting), 7,200 rpm (12TB / 8 TB / 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. 400 GB SED-SSD is not available in EMEA region	
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	4,096	
Max. LUN capacity	128 TB	
No. of snapshots - max.	1,024	
Max. no. of copy generations	512	
Eco-mode	Yes	
<b>Performance management</b>		
Automated Storage Tiering	Yes	
Quality of Service	Yes	
Automated QoS	Yes	
Wide striping	Yes	

**Performance management**

Note Automation options can be activated via ETERNUS SF Software

**Continuity management**

Storage Cluster Yes

Remote Copy functionality Synchronous and asynchronous

Note Options can be activated via ETERNUS SF Software

**Information 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**

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  
 Microsoft® Windows Server® 2016  
 Microsoft Windows Server 2012, 2012 R2  
 Microsoft Windows Server 2008, 2008 R2  
 Solaris® 11 (11/11 or later)  
 Solaris® 10  
 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

Operation Management Client  
 Internet Explorer® 9, 10, 11  
 FireFox® ESR 17, 24, 31, 38, 45, 52  
 Microsoft Edge® 25  
 Chrome® 60  
 Chrome® 47, 50 (Android®)  
 Safari 8, 9 (iOS)

**Supported configurations**

**All major host operating systems, servers and business applications**

Detailed support matrix:

[www.fujitsu.com/global/support/products/computing/storage/disk/supported-configurations](http://www.fujitsu.com/global/support/products/computing/storage/disk/supported-configurations)

**Installation specification**

19" rackmount Yes

**Installation specification**

<b>Service Area</b>	Front: 850 mm (33.5 inch) or more Rear: 850 mm (33.5 inch) or more				
<b>Power voltage</b>	AC 100 - 120 V / AC 200 - 240 V				
<b>Power frequency</b>	50 / 60 Hz				
<b>Power supply efficiency</b>	92 % (80 PLUS gold)				
<b>Maximum Power Consumption</b>	AC 100 - 120 V: 4,170 W (4,280 VA)				
<b>Maximum Power Consumption</b>	AC 200 - 240 V: 4,170 W (4,280 VA)				
<b>Power phase</b>	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
<b>Dimensions (W x D x H)</b>	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
<b>Weight</b>	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	100 kg (220 lb)
<b>Maximum Power Consumption (AC 100 - 120 V)</b>	770W (780VA)	670W (680VA)	430W (440VA)	340W (350VA)	1300W (1320VA)
<b>Maximum Power Consumption (AC 200 - 240 V)</b>	770W (780VA)	670W (680VA)	430W (440VA)	340W (350VA)	1300W (1320VA)

**Environment**

<b>Maximum Heat Generation</b>	AC 100 - 120 V: 15,800: kJ/h AC 200 - 240 V: 15,800: kJ/h
<b>Temperature (not operating)</b>	0 - 50 °C
<b>Humidity (operating)</b>	20 - 80 % (relative humidity, non-condensing)
<b>Humidity (not operating)</b>	8 - 80 % (relative humidity, non-condensing)
<b>Altitude</b>	3,000 m (10,000 ft.)
<b>Sound pressure (LpAm)</b>	49dB(A)
<b>Sound power (LWAd; 1B = 10dB)</b>	6.7B
<b>Noise notes</b>	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296
<b>Operating environment</b>	Site Planning Guide
<b>Operating environment link</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=5d99bbf7-7118-4069-99e2-ff6551df9831">http://docs.ts.fujitsu.com/dl.aspx?id=5d99bbf7-7118-4069-99e2-ff6551df9831</a>

**Compliance**

<b>Product safety</b>	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1
<b>Electromagnetic Compatibility</b>	CNS 13438, FCC Part-15 Subpart B Class A, ICES 003 Class A, EN55032, VCCI Class A, AS/NZS CISPR 32 class A
<b>Electromagnetic Immunity</b>	EN 55024
<b>CE certification</b>	2014/30/EU, 2014/35/EU, 2011/65/EU
<b>Approvals</b>	CB, CE, C-Tick, FCC, EAC, GS, VCCI
<b>Environmental compliance</b>	RoHS compliant, WEEE compliant
<b>Compliance notes</b>	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.
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

<b>Warranty period</b>	3 years
<b>Warranty type</b>	Onsite warranty
<b>Warranty Terms &amp; Conditions</b>	<a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a>

**Product Related Services - the perfect extension**

<b>Support Pack Options</b>	- Globally available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
<b>Recommended Service</b>	- 24x7, Onsite Response Time: 4h
<b>Service Lifecycle</b>	5 years after end of product life

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Warranty

Service Weblink

[www.fujitsu.com/services/product-services](http://www.fujitsu.com/services/product-services)

### Fujitsu products, solutions & 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

[www.fujitsu.com/software/](http://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](http://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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