Data Sheet FUJITSU Storage ETERNUS DX100 S4 Hybrid 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

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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
	ETERNUS SF Express management suite included at no extra cost
Business Continuity around the clock	
,	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
	System availability of 99.9999%
Automated Quality-of-Service	1 1
	Control of applications priorities according to business needs.
	 Automation of monitoring and adjustment
	 Minimization of admin efforts
	 Guaranteed service levels

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	CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv2, NFSv3, NFSv4 1,728 TB 2,212 TB					
Maximum Storage Capacity SSD	1,728 TB 2,212 TB 2.5-inch, SAS, 15,000 rpm (900 GB / 600 GB / 300 GB*)					
Drive Type	 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, SSD (self-encrypting), 7,200 rpm (12 TB/ 8 TB/ 4 TB) 3.5-inch, SSD (self-encrypting) (3.84 TB/1.92 TB / 960GB / 400 GB) 3.5-inch, SSD (self-encrypting), 7,200 rpm (12 TB/ 8 TB / 4 TB) 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, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) HDDE, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) HDDE, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) HDDE, Nearline SAS, 7,200 rpm (12 TB / 10 TB / 8 TB / 6 TB / 4 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 drive enclosures. 2.5-inch 2TB, 3.5-inch 6TB/8TB/10TB Nearline SAS and 1.8TB SAS drives are Advanced Format drives. * Not Available in EMEIA region 					
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	1,024 512					
Eco-mode	Yes					

Performance management

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	Vec				
Storage Cluster Remote Copy functionality	Yes Supphrappurs and supphrappurs				
Note	Synchronous and asynchronous 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 (version 1, 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				
operation management server	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-configrations				
	พพพ.เมเเรน.com/giobal/support/piobalcs/computing/storage/disk/supported-comgrations				
Installation specification					
19" rackmount	Yes				

Installation specification									
Service Area	Front: 850 mm (33.5	inch) or more							
	Rear: 850 mm (33.5 i								
Power voltage	AC 100 - 120 V / AC 20	00 - 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)							
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	482 x 670 x 88 mm 19 x 26.4 x 3.5 inch	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch	482 x 560 x 88 mm 19 x 22 x 3.5 inch	482 x 980 x 176 mm 19 x 38.6 x 6.9 inch				
	2 U	2 U	2 U	2 U	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)	770W (780VA)	670W (680VA)	430W (440VA)	340W (350VA)	1300W (1320VA)				
Maximum Power Consumption (AC 200 - 240 V)	770W (780VA)	670W (680VA)	430W (440VA)	340W (350VA)	1300W (1320VA)				
Environment									
Maximum Heat Generation		AC 100 - 120 V: 15,800: kJ/h							
	AC 200 - 240 V: 15,800: kJ/h								
lemperature (not operating)		0 - 50 °C							
lumidity (operating)	20 - 80 % (relative hu	20 - 80 % (relative humidity, non-condensing)							
lumidity (not operating)	8 - 80 % (relative hun	nidity, non-condensing)							
Altitude	3,000 m (10,000 ft.)	3,000 m (10,000 ft.)							
Sound pressure (LpAm)	49dB(A)	49dB(A)							
Sound power (LWAd; 1B = 10dB)	6.7B	6.7B							
Noise notes	Measured with single	Measured with single enclosure according to ISO 7779 and declared according to ISO 9296							
Operating environment	Site Planning Guide								
Operating environment link	http://docs.ts.fujitsu.c	om/dl.aspx?id=5d99bbl	7-7118-4069-99e2-ff65	51df9831					
Compliance									
Product safety	UL 60950-1, CSA-C22.	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1							
Electromagnetic Compatibility	CNS 13438, FCC Part-1	5 Subpart B Class A, ICE	S 003 Class A, EN55032	, VCCI Class A, AS/NZS Cl	SPR 32 class A				
Electromagnetic Immunity	EN 55024								
CE certification	2014/30/EU, 2014/35	/EU, 2011/65/EU							
Approvals	CB, CE, C-Tick, FCC, EA	c, gs, vcci							
Environmental compliance	RoHS compliant, WEE	E 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 Product Related Services - the perfec	www.fujitsu.com/supp t extension	port							
Support Pack Options	9x5, Next Business Da 9x5, 4h Onsite Respo	- 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)							
Recommended Service	- 24x7, 4h Ohsite Response Time: 4h								
Service Lifecycle	· · ·	5 years after end of product life							
	s years arrenend of p								

Warranty

Service Weblink

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

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Software
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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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