

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 quarantees continuity and efficiency in daily operations.









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
	■ 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	
	 Control of applications priorities according to business needs. Automation of monitoring and adjustment Minimization of admin efforts Guaranteed service levels

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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	2-8 ports [FC(32Gbit/s, 16Gbit/s, 8Gbit/s), iSCSI(10Gbit/s, 1Gbit/s), SAS(12Gbit/s)], 4/8 ports [Ethernet(10Gbit/s)], 8/16 ports [Ethernet(1Gbit/s)]			
Maximum System Memory	32	GB		
Extreme Cache Pool	1.6	5 TB		
Maximum Disk Drives	14	44		
Max. no. of drive enclosures	1	0		
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	2016 TB			
Maximum Storage Capacity SSD	4,42	24 TB		
Drive Type Note	2.5-inch, SAS (self-encrypting 2.5-inch, Nearline SAS, 2.5-inch, SSD (30.72TB / 15.36TB / 7.68 2.5-inch, SSD (self-encrypting) (3.5-inch, Nearline SAS, 7,200 rpm (14 TE 3.5-inch, Nearline SAS (self-encrypting) 3.5-inch, SSD (3.84TB / 13.5-inch, SSD (3.84TB / 13.5-inch, SSD (self-encrypting) 4.5-inch, SSD (self-encrypting) 4.5-inch SAS, 10,00 HDDE, SAS, 10,00 HDDE, Nearline SAS, 7,200 rpm (14 TB / HDDE, SSD (3.84TB / 13.5-inch drive) 4.5-inch drive enclosus enclosus 2 TB (2.5-inch) / 6 TB / 8 TB / 10 TB / 12 TB / 14 TB Nearline SAS	B / 1.2 TB / 900 GB* / 600 GB / 300 GB*) g), 10,000rpm (2.4 TB/ 1.2TB) 7,200 rpm (2 TB / 1 TB) TB / 3.84 TB / 1.92 TB / 960GB / 400 GB) 7.68TB/3.84 TB/1.92 TB/ 400 GB) B / 12 TB/ 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) ting), 7,200 rpm (12 TB/ 8 TB/ 4 TB) 1.92TB / 960GB / 400GB) g) (3.84 TB/1.92 TB/ 400 GB) 000 rpm (1.2 TB) / 12 TB / 10 TB / 8 TB / 6 TB / 4 TB / 2 TB) 4TB* / 1.92TB*) ng), 7,200 rpm (12TB / 8 TB / 4 TB) ures and 3.5-inch drives are available only for 3.5-inch drivsures.		
Mixed 2.5 inch/ 3.5 inch drive enclosures		es		
Drive interface	Serial Attached	SCSI (12 Gbit/s)		
Back-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial			
Max. no. of LUNs		096		
Max. LUN capacity	·	ЗТВ		
No. of snapshots - max.	1,0	024		
Max. no. of copy generations		12		
Eco-mode		es		
Performance management				
	Yes			
Automated Storage Tiering	Yes			
Automated Storage Tiering Quality of Service				

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Performance management	
Wide striping	Yes
Note	Automation options can be activated via ETERNUS SF Software
Continuity management	Yes
Storage Cluster	
Remote Copy functionality Note	Synchronous and asynchronous Options can be activated via ETERNUS SF Software
	Options can be activated via ETERNOS SE 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 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® 2019
орегасіон манадешені зегчег	Microsoft® Windows Server® 2019 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 Oracle Linux 6
	VMware® vSphere® 6.0, 6.5, 6.7
	VMware® vSphere® 5/ 5.1/ 5.5
	Microsoft Windows Server 2019 Hyper-V
	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, 60 Microsoft Edge® 25, 42
	Chrome® 60
	Chrome® 47, 50 (Android®)
	Safari 8, 9 (iOS)
Supported configurations	All major host operating systems, servers and business applications
FF or to coming or or or or	Detailed support matrix:
	betailed support matrix.

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Installation specification							
19" rackmount	Yes						
Service Area	Front: 850 mm (33.5 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	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)	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: 15,80	0: kJ/h					
	AC 200 - 240 V: 15,80	AC 200 - 240 V: 15,800: kJ/h					
Temperature (not operating)	0 - 50 °C						
Humidity (operating)	20 - 80 % (relative hu	midity, non-condensing)				
Humidity (not operating)	8 - 80 % (relative hun	nidity, 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 a	ccording to ISO 9296			
Operating environment	Site Planning Guide						
Operating environment link	http://docs.ts.fujitsu.c	om/dl.aspx?id=5d99bb	f7-7118-4069-99e2-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	CNS 13438, FCC Part-15 Subpart B Class A, ICES 003 Class A, EN55032, VCCI Class A, AS/NZS CISPR 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	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 Product Support Services - the perfect	www.fujitsu.com/warr	anty					
Support Pack Options	Globally available in r 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, Onsite Respons						

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Warranty	
Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

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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/

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/qlobal/about/environment



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