

Data Sheet FUJITSU Storage ETERNUS DX100 S5 Disk System

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



ETERNUS DX - Business-centric Storage

FUJITSU Storage ETERNUS DX series are the ideal hybrid storage for on-premise storage of business-critical data in data centers, branch offices and self-operated IT of SMBs, something every business can afford, with integrated and powerful features for business growth, efficiency and continuity. Latest capacity and performance optimization capabilities contribute to overall business efficiency, outstanding data-safe technologies and all-inclusive encryption guarantee uncompromised business continuity.

ETERNUS DX100 S5

The scalable and unified Fujitsu Storage ETERNUS DX100 S5 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 in the entry-level class. All of which contribute to better business support and quarantees continuity and efficiency in daily operations



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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
Rusiness Continuity around the clock	■ 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
4 Io lin 66 .	■ 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	4/8 ports [FC(32Gbit/s,16Gbit/s), iSCSI(10Gbit/s,1Gbit/s), SAS(12Gbit/s), Ethernet(10Gbit/s)], 8/16 ports [Ethernet(1Gbit/s)]					
Maximum System Memory	64 0	GB .				
Extreme Cache Pool	1.6	ТВ				
Maximum Disk Drives	14	4				
Max. no. of drive enclosures	5	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 (16 Gbit/s, 32Gbit/s) iSCSI (10 Gbit/s [10GBase-SR, 10GBase-CR, 10GBase-T], 1 Gbit/s) SAS (12Gbit/s) Ethernet (10 Gbit/s, 1 Gbit/s)					
Mixed host interfaces	Yes					
Max. no. of hosts	1,02	24				
Supported NAS protocols	CIFS (SMB 3.1.1), CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv4, NFSv3, NFSv2, FTP, FXP					
Maximum Storage Capacity HDD	2,016 TB					
Maximum Storage Capacity SSD	4,424					
Drive Type	2.5-inch, SAS, 15,000 rpm (90 2.5-inch, SAS, 10,000 rpm (2.4 TB/ 2.5-inch, SAS (FIPS), 2.5-inch, SSD (30.72TB / 15.36TB / 7.68 2.5-inch, SSD (FIPS) (7.6 3.5-inch, Nearline SAS, 7,200 rpm (1 3.5-inch, Nearline SAS (FIPS), 3.5-inch, SSD (7.68TB / 3.84Tl 3.5-inch, SSD (FIPS, self-enc HDDE, Nearline SAS, 7,200 rp HDDE, Nearline SAS (FIPS), 7,	1.8 TB / 1.2 TB / 600 GB / 300 GB*) 10,000rpm (1.2TB) TB / 3.84TB / 1.92TB / 960GB / 800GB) 8TB / 3.84TB / 1.92TB) 4TB / 12TB/ 10TB / 8TB / 6TB / 4TB) 7,200 rpm (12TB / 8TB / 4TB) B / 1.92TB / 960GB / 800GB) rypting) (3.84TB / 1.92TB) m (14TB / 12TB / 8TB / 4TB)				
Note	*For EMEIA only availal	ole on special request				
Max. no. of SSDs	unlim	ited				
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 RAID groups per system	72					
Max. no. of LUNs per RAID group	128					
Max. no. of LUNs	4,09	96				
Max. LUN capacity	128	ТВ				
Max. no. of copy generations	51	2				
Performance						
Latency	140µsec (Read),	60µsec (Write)				
Sequential access performance	11,000 MB/s (128KB Read) 4,400 MB/s (128KB Write)					
	320,000 IOPS (8KB Read) 170,000 IOPS (8KB Write)					
Random access performance						
Random access performance Performance management						

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Performance management									
Quality of Service	Yes								
Continuity management									
Storage Cluster			Yes						
Remote Copy functionality		Sı	nchronous and async	hronous					
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Information security management		LITTE	CCL / CCL CHAD D. I.	·· LCHAD					
Data confidentiality	HTTPS (SSL), SSH, CHAP, Bidirectional CHAP								
Data integrity	Data Block Guard, Data Encryption, Cache Protection, Disk Drive Patrol, Global Hot Spare, Dedicated Hot Spare, Cop back less, Drive shield, Fast Recovery								
Availability management									
Non-disruptive firmware upgrade			Yes						
Hot part replacement			Yes						
Capacity management									
Thin Provisioning	Yes								
RAID migration	Yes								
Reporting function	Yes								
Hot part expansion	Yes								
Management									
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF								
Supported OS for ETERNUS SF									
Operation Management Server Operation Management Client	Microsoft Internet Exp Firefox ESR 60, ESR 68 Microsoft Edge 25, 42, Google Chrome 60, 75 Chrome® 47, 50 (Andr	erver® 2016 Ever 2012, 2012 R2 ERNUS SF Express) EVER ST Express EVER	2 R2 Hyper-V						
Note	Safari 8, 9 (iOS) See the ETERNUS SF da	atasheet for further opt	ions						
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								
Power voltage	AC 100 - 120 V / AC 20	0 - 240 V							
Power frequency	50 / 60 Hz								
Maximum Power Consumption	AC 100 - 120 V: 4,170\	N (4,280VA)							
Maximum Power Consumption	AC 200 - 240 V: 4,170\								
Power phase	Single	,							
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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)				
Environment									
Maximum Heat Generation	AC 100 - 120 V: 15,75	AC 100 - 120 V: 15,750: kJ/h							
	AC 200 - 240 V: 15,750: kJ/h								
Temperature (operating)	10 - 40 °C								
Humidity (operating)	20 - 80 %	20 - 80 %							
Operating environment	FTS 04230 – Guidelin	FTS 04230 – Guideline for Data Center (installation specification)							
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=589915e9-1bf8-40f7-8ba4-7cac9371f2f0								
Compliance									
Product safety	UL 60950-1, CSA 609	UL 60950-1, CSA 60950-1, EN 60950-1, IEC 60950-1, TP TC 004/2011, CNS14336							
Electromagnetic Compatibility	FCC Part-15 Class A, ICES-003 Class A, EN 55022 (2010), +AI, VCCI Class A, AS/NZS CISPR 22 Class A, CNS13438 (C635 Class A, KN22								
Electromagnetic Immunity	EN 55024	EN 55024							
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	https://sp.ts.fujitsu.com/sites/certificates							
Warranty									
Warranty period	3 years	3 years							
Warranty type	Onsite warranty								
Warranty Terms & Conditions	www.fujitsu.com/warı	anty							
Product Support Services - the perfe	ect extension								
Support Pack Options	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, 411 Offsite Respons		on country)						
Service Lifecycle	5 years after end of product life								
Service Weblink	www.fujitsu.com/services/product-services								
Service fredmin	www.rajicsa.com/scrv	ices, produce services							

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Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS DX100 S5, 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 S5, 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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