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 ensures 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 ensures 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 ■ Ensured service levels

Technical details

Supported RAID levels	0, 1, 1+0, 5, 5+0, 6, 6+0
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	8
Supported NAS protocols	CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv4, NFSv3, NFSv2, FTP, FXP
Maximum Storage Capacity	4424 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 / 600 GB / 300 GB*) 2.5-inch, SAS (FIPS), 10,000rpm (1.2TB) 2.5-inch, SSD (30.72TB / 15.36TB / 7.68TB / 3.84TB / 1.92TB / 960GB / 800GB) 2.5-inch, SSD (FIPS) (7.68TB / 3.84TB / 1.92TB) 3.5-inch, Nearline SAS, 7,200 rpm (14TB / 12TB/ 10TB / 8TB / 6TB / 4TB) 3.5-inch, Nearline SAS (FIPS), 7,200 rpm (12TB / 8TB / 4TB) 3.5-inch, SSD (7.68TB / 3.84TB / 1.92TB / 960GB / 800GB) 3.5-inch, SSD (self-encrypting) (3.84 TB/1.92 TB) HDDE, Nearline SAS, 7,200 rpm (14TB / 12TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7,200 rpm (12TB / 8 TB / 4TB)
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes
Max. no. of RAID groups per system	72
Max. no. of LUNs per RAID group	128
Max. no. of LUNs	4,096
Max. LUN capacity	128 TB
Max. no. of copy generations	512
Performance	
Latency	140µsec (Read), 60µsec (Write)
Sequential access performance	11,000 MB/s (128KB Read) 4,400 MB/s (128KB Write)
Random access performance	320,000 IOPS (8KB Read) 170,000 IOPS (8KB Write)
Performance management	
Automated Storage Tiering	Yes
Quality of Service	Yes
Continuity management	
Storage Cluster	Yes
Remote Copy functionality	Synchronous and asynchronous
Information security management	
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, Copy 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

Capacity management	
Reporting function	Yes
Hot part expansion	Yes
Management	
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF
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 200 - 240 V
Power frequency	50 / 60 Hz
Maximum Power Consumption	AC 100 - 120 V: 4,170W [4,630VA]
Maximum Power Consumption	AC 200 - 240 V: 4,170W [4,630VA]
Power phase	Single
Environment	
Maximum Heat Generation	AC 100 - 120 V: 15,750: kJ/h
	AC 200 - 240 V: 15,750: kJ/h
Humidity (operating)	20 - 80 %
Operating environment	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 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 (C6357) Class A, KN22
Electromagnetic Immunity	EN 55024
Environmental compliance	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.com/sites/certificates
Warranty	
Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support
Product Support Services - the perfect 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, Onsite Response Time: 4h
Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

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Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to data center solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
https://www.fujitsu.com/us/products/computing

Software
https://www.fujitsu.com/us/products/software

More information

Learn more about Fujitsu ETERNUS DX100 S5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
https://www.fujitsu.com/us/products/computing/storage

Fujitsu green policy innovation

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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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12-13-2019

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