

Data Sheet FUJITSU Storage ETERNUS DX500 S5 Disk System

Leading storage performance, automated quality of service



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 DX500 S5

The scalable and unified Fujitsu Storage ETERNUS DX500 S5 system delivers leading storage performance and automated quality of service management, enabling maximum system utilization and contributing to a fast ROI. It is the perfect solution when consolidating data in large-scale databases, business-critical applications and business analytics / big data - all into one system. It provides ample headroom for demanding server/ desktop virtualization environments and enterprise file services. The ETERNUS DX family architecture lets customers benefit from software options, such as thin provisioning, automatic storage tiering, transparent failover, quality of service management, and ensures smart operation and business continuity. The selective use of deduplication and compression completes the set of features with data efficiency options. All this makes ETERNUS DX500 S5 an ideal storage system for business-critical data.



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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 ETERNUS SF management suite
Business Continuity around the clock	= ErEMitos 31 Management state
	 Replication and Storage Cluster to avoid planned or unplanned downtimes Transparent failover for 100% data insurance and non-stop
	operations
	Intelligent snapshot functionality for backupSystem 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
Selective use of deduplication / compression	
	 Decide on application label which option fits best Don't compromise applications with performance SLA's Capacity savings in hybrid configurations

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Technical details

General system information			
•	ETERNUS DX500 S5		
No. of controllers	2		
No. of host interfaces	4-16 ports [FC(32Gbit/s,16Gbit/s), Ethernet(1Gbit/s)], 4/8 ports [iSCSI(10Gbit/s,1Gbit/s), Ethernet(10Gbit/s)]		
Maximum System Memory	512 GB		
Extreme Cache	25.6 TB		
Maximum Disk Drives	576		
Max. no. of drive enclosures	23		
Note	23 with 2.5" or 3.5" DE, 8 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 (10Gbit/s [10GBASE-SR, 10GBASE-CR]) iSCSI (1 Gbit/s) Ethernet (10 Gbit/s, 1 Gbit/s)		
Mixed host interfaces	Yes		
Max. no. of hosts	4,096		
Supported NAS protocols	CIFS (SMB 3.1.1), CIFS (SMB 3.0), CIFS (SMB 2.0), NFSv4, NFSv3, NFS, FTP, FXP		
Maximum Storage Capacity HDD	7,786 TB		
Maximum Storage Capacity SSD	17,695 TB		
Drive Type	2.5-inch, SAS, 15,000 rpm (900 GB* / 600 GB* / 300 GB*) 2.5-inch, SAS, 10,000 rpm (2.4TB / 1.8TB / 1.2TB / 600GB) 2.5-inch, SAS (FIPS), 10,000rpm (1.2TB) 2.5-inch, SSD (30.72TB / 15.36TB / 7.68TB / 3.84TB / 1.92TB / 960GB) 2.5-inch, SSD (FIPS) (7.68TB / 3.84TB / 1.92TB) 3.5-inch, Nearline SAS, 7,200 rpm (14TB / 12TB / 10TB / 8TB / 4TB) 3.5-inch, Nearline SAS (FIPS), 7,200 rpm (12TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7,200 rpm (12TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7,200 rpm (12TB / 8 TB / 4TB)		
Vote	*For EMEIA only available on special request		
Max. no. of SSDs	unlimited		
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes		
Orive interface	Serial Attached SCSI (12 Gbit/s)		
Back-end disk connectivity	4 pairs of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)		
Max. no. of RAID groups per system	264		
Max. no. of LUNs per RAID group	128		
Max. no. of LUNs	16,384		
Max. LUN capacity	128 TB		
Max. no. of copy generations	512		
Deduplication	for block		
Compression	for block		
Performance			
Latency	140µsec (Read), 60µsec (Write)		
Sequential access performance	20,000 MB/s (128KB Read) 9,000 MB/s (128KB Write)		
Random access performance	580,000 IOPS (8KB Read) 290,000 IOPS (8KB Write)		
Performance management			
Automated Storage Tiering	Yes		
Quality of Service	Yes		

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Performance management						
Note		Automation options can be a	activated via ETERNUS SF Softv	vare		
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, Co 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 use	er interface, CLI (Command Line	Interface), ETERNUS SF			
Supported OS for ETERNUS SF						
	Solaris® 11 (11/11 or late Solaris® 10 (except ETERI Red Hat Enterprise Linux Red Hat® Enterprise Linu Red Hat® Enterprise Linu Oracle Linux 6 VMware® vSphere® 6.0, 6 Microsoft Windows Serve Microsoft Windows Serve	r 2012 Hyper-V, 2012 R2 Hyper- er) NUS SF Express) 8 x® 7 x® 6 5.5, 6.7 r 2019 Hyper-V				
Operation Management Client	Microsoft Internet Explorer 10, 11 Firefox ESR 60, ESR 68 Microsoft Edge 25, 42, 44 Google Chrome 60, 75 Chrome® 47, 50 (Android®) Safari 8, 9 (iOS)					
Note	See the ETERNUS SF data	sheet for further options				
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 200 - 240 V					
Power frequency	50 / 60 Hz					
Maximum Power Consumption	AC 200 - 240 V: 13,760W	(14,020VA)				
Power phase	Single					
	ETERNUS DX500 S5	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure		
Dimensions (W x D x H)	482 x 788 x 133 mm 19 x 31 x 5.2 inch	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch	482 x 580 x 88 mm 19 x 22.8 x 3.5 inch	482 x 980 x 176 mm 19 x 38.6 x 6.9 inch		

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Weight	58 kg (128 lb)	35 kg (77 lb)	35 kg (77 lb)	100 kg (220 lb)				
Environment								
Maximum Heat Generation	AC 200 - 240 V: 50,42	AC 200 - 240 V: 50,420: kJ/h						
Humidity (operating)	20 - 80 %							
Operating environment	FTS 04230 – Guidelir	FTS 04230 – Guideline for Data Center (installation specification)						
Operating environment link	http://docs.ts.fujitsu.	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, I Class A, KN22	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	EN 55024						
Environmental compliance	RoHS compliant, WE	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	Onsite warranty						
Warranty Terms & Conditions Product Support Services - the perfe	www.fujitsu.com/warranty 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 Respon	24x7, Onsite Response Time: 4h						
Service Lifecycle	5 years after end of p	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 DX500 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 DX500 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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