

Data Sheet FUJITSU Storage ETERNUS DX900 S5 Disk System

Enterprise-grade, midrange hybrid storage system



ETERNUS DX - Business-centric Storage

FUJITSU Storage ETERNUS DX series are the ideal hybrid storage for on-premise storage of businesscritical 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 DX900 S5 ideal for the data management data-safe technologies and all-inclusive encryption guarantee uncompromised business continuity.

ETERNUS DX900 S5

Fujitsu Storage ETERNUS DX900 S5 is an Enterprise-grade, midrange hybrid storage system that offers modular scalability, leading performance headroom and relentless business continuity capabilities. Latest data reduction technologies and fully automated quality-of-service functions make ETERNUS of business-critical core applications as well as of large and fast-growing amounts of unstructured data. Various types of disk and flash drives can be combined flexibly to balance capacity, data access speed and cost for specific business needs.



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Features & Benefits

Benefits
■ Future-proof_scale-out architecture and upgrade options meet
current and future business requirements
 Flexible combination of flash and disk media for different workloads of deployments
Data center storage consolidation
Superior performance by design
Turbocharge performance via NVMe cache
 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
■ Non-disruptive migration
■ System availability of 99.9999%
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Manage data service levels by business objective
Automation of monitoring and adjustment
■ Guaranteed service levels
Data compression without performance impact
■ Flash-optimized data center storage system
Complete management compatibility using ETERNUS SF Management software

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Technical details

General system information	ETERNIC DVOOC CE			
N. C. III	ETERNUS DX900 S5			
No. of controllers	2/4			
No. of host interfaces	4-64 ports [FC(32Gbit/s,16Gbit/s)], 4-32 ports [iSCSI(10Gbit/s,1Gbit/s)]			
Maximum System Memory	3 TB			
Extreme Cache	51.2 TB			
Maximum Disk Drives	2,304			
Max. no. of drive enclosures	94			
Note	94 with 2.5" or 3.5" DE, 32 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)			
Mixed host interfaces	Yes			
Max. no. of hosts	8,192			
Maximum Storage Capacity HDD	31,699 TB			
Maximum Storage Capacity SSD	70,778 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 / 6TB / 4TB) 3.5-inch, Nearline SAS (FIPS), 7,200 rpm (12TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7,200 rpm (12TB / 8TB / 4TB)			
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 pair of four-lane x 12 Gbits Serial Attached SCSI buses (SAS3.0 wide) / Controller Enclosure			
Max. no. of RAID groups per system	528			
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			
Compression	Yes			
Performance				
Latency	140μsec (Read), 60μsec (Write)			
Sequential access performance	44,000 MB/s (128KB Read) 22,000 MB/s (128KB Write)			
Random access performance	1,800,000 IOPS (8KB Read) 870,000 IOPS (8KB Write)			
Performance management				
Automated Storage Tiering	Yes			
Quality of Service	Yes			
Note	Automation options can be activated via ETERNUS SF Software			
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Continuity management				

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Continuity management						
Remote Copy functionality		Syı	nchronous and asynchro	onous		
Information security management						
Data confidentiality		HTTPS (S	SL), SSH, CHAP, Bidirec	tional CHAP		
Data integrity	Data Block Guard, Da	ata Encryption, Cache Pro back	otection, Disk Drive Pati less, Drive shield, Fast I		edicated Hot Spare, Copy	
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 (Comi	mand Line Interface), E	TERNUS SF		
Supported OS for ETERNUS SF						
Operation Management Server	Microsoft® Windows Server® 2019 Microsoft® Windows Server 2012, 2012 R2 Solaris® 11 (11/11 or later) Solaris® 10 (except ETERNUS SF Express) Red Hat Enterprise Linux® 7 Red Hat® Enterprise Linux® 6 Oracle Linux 6 VMware® vSphere® 6.0, 6.5, 6.7 Microsoft Windows Server 2019 Hyper-V Microsoft Windows Server 2016 Hyper-V Microsoft Windows Server 2012 Hyper-V, 2012 R2 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 da	atasheet for further opti	ons			
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: 57,680W (58,910VA)					
Power phase	Single					
	ETERNUS DX900 S5	Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure	
Dimensions (W x D x H)	482 x 816 x 218 mm 19 x 32.1 x 8.6 inch 5 U	482 x 788 x 133 mm 19 x 31 x 5.2 inch 3 U	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch 2 U	482 x 580 x 88 mm 19 x 22.8 x 3.5 inch 2 U	482 x 980 x 176 mm 19 x 38.6 x 6.9 inch 4 U	
Weight	64 kg (141 lb)	58 kg (128 lb)	35 kg (77 lb)	35 kg (77 lb)	100 kg (220 lb)	
Environment						

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Environment				
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 (C635 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 Product Support Services - the perfe	www.fujitsu.com/warranty 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, 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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Fujitsu products, solutions & services

In addition to FUJITSU ETERNUS DX900 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 DX900 S5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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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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