

Data Sheet

Fujitsu Storage ETERNUS DX600 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.

The scalable and unified Fujitsu Storage ETERNUS DX600 S5 system delivers leading storage performance and automated qualities 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

ETERNUS DX600 S5

The scalable and unified Fujitsu Storage ETERNUS DX600 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, 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 DX600 S5 an ideal storage system for business-critical data.



Features & Benefits

Benefits
Massive scalability makes it perfect for any future requirements. Flexible combination of flash and disk media allow a broader scope of deployments, while unified SAN and NAS access drives system utilization and enhances ROI. Outstanding benchmark results with ultra-low latency and the management suite ETERNUS SF make it the ideal RAID system.
Avoid planned or unplanned downtimes with replication and Storage Cluster. High redundancies enable business critical computing, data processing and real time data mirroring at the highest level and a system availability of up to 99.9999%. Intelligent snapshot functionality supports secure backups.
 Control application priorities according to business needs, minimize admin efforts, automate monitoring and adjustment to guarantee service levels
 Use data reduction technologies at the volume level to improve storage efficiency and meet performance SLA's, and also save storage capacity in hybrid configurations

Technical details

ETERNUS DX600 S5		
2		
4-32 ports [FC(32Gbit/s,16Gbit/s), iSCSI(10Gbit/s,1Gbit/s), Ethernet(1Gbit/s)], 4-16 ports [Ethernet(10Gbit/s)]		
768 GB		
25.6 TB		
1,056		
43		
43 with 2.5" or 3.5" DE, 16 with HD-DE or mixture of DEs up to Max. no. Drives		
0, 1, 1+0, 5, 5+0, 6		
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)		
Yes		
4,096		
CIFS (SMB 3.1.1), CIFS (SMB3.0.2), CIFS (SMB 3.0), CIFS (SMB2.1), NFS (NFSv4), NFS (NFSv3), FTP, FXP		
18,634 TB		
32,440 TB		
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, 7,200rpm (18TB / 16TB / 14TB / 12TB / 10TB / 8TB / 6TB / 4TB)		
3.5-inch, Nearline SAS (FIPS), 7,200rpm (16TB / 12TB / 8TB / 4TB)		
HDDE, Nearline SAS, 7,200rpm (18TB / 16TB / 14TB / 12 TB / 8TB / 4TB) HDDE, Nearline SAS (FIPS), 7,200rpm (16TB / 12 TB / 8TB / 4TB)		
*For EMEIA only available on special request		
*For EMEIA only available on special request unlimited		
Yes		
Serial Attached SCSI (12 Gbit/s)		
4 pairs of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)		
528		
128		
16,384		
128 TB		
8,192		
512		
for block		
for block		
If and to the extent a list of components or certain compatibilities are specified in the product data sheet, these		
component lists and compatibility specifications are exhaustive. Using deviating or other system components and		
applications together with the product may but does not necessarily have to lead to compatibility problems. A fin		
statement and/or commitment on the compatibility of such deviating or other system components and applications and applications of the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system components and applications are such as the compatibility of such deviating or other system.		
can only be provided after a corresponding verification through a dedicated compatibility testing.		
140 (D 1) 60 (M':)		
140μsec (Read), 60μsec (Write)		

Performance			
Random access performance	700,000 IOPS (8KB Read) 340,000 IOPS (8KB Write) To the extent that specific performance specifications for the product are indicated in the product data sheet, th are usually also dependent on the specific use and workload of the product and may therefore not be reached equally in all application situations. Such performance specifications thus do not represent a specifically agreed characteristic or feature of the product, but only serves as an orientation. The responsibility for a sufficient sizing the overall system functionality lies solely with the user.		
Note			
Performance management			
Automated Storage Tiering	Yes		
Quality of Service	Yes		
Operation Management Client	Google Chrome 99, Microsoft Edge® 99		
Note	Automation options can be activated via ETERNUS SF Software. Use of browser software is subject to proactive acceptance of the respective License Agreements/ EULAs of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional.		
Continuity management			
Storage Cluster	Yes		
Remote Copy functionality	Synchronous and asynchronous		
Note	The product may in connection with and depending on the specific configuration include elements to support time and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.		
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, Cop back less, Drive shield, Fast Recovery		
Note	The properties of the product provide a baseline for product security and therefore end-customer IT security. However, these properties are not sufficient on their own to protect the product from all existing threats, such as intrusion attempts, data exfiltration and other forms of cyberattacks. To customize security settings, please use the configuration options as available for the respective product. During operation, the IT security of this product is within the responsibility of the respective administrator/end-user of the product. Please note, that Fujitsu as a manufacturer does not make any policy prescriptions or advocacy statements regarding IT security best practices and/or general product operation.		
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		
Non-disruptive firmware upgrade	Yes		
Management			
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF		

Supported OS for ETERNUS SF					
Operation Management Server	Microsoft® Windows Server® 2019 Microsoft® Windows Server® 2016 Microsoft Windows Server 2012, 2012 R2 Solaris® 11 (11/11 or later) Solaris® 10 (except ETERNUS SF Express) Red Hat Enterprise Linux 8 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	Google Chrome 99 Microsoft Edge® 99				
Note	See the ETERNUS SF datasheet for further options. Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/ EULAs/ Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration.				
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	AC 200 - 240 V			
Power frequency	50 / 60 Hz	50 / 60 Hz			
Power supply efficiency	92 % (80 PLUS gold)	92 % (80 PLUS gold)			
Maximum Power Consumption	AC 200 - 240 V: 25,760W (26,280VA)				
Power phase	Single				
	ETERNUS DX600 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 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	58 kg (128 lb)	35 kg (77 lb)	35 kg (77 lb)	100 kg (220 lb)	
Environment					
Maximum Heat Generation	AC 200 - 240 V: 94,960: k	 J/h			
Temperature (operating)	10 - 40 °C				
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	ETERNUS DX600 S5				
Model	MG-CE				
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 c	· · · · · · · · · · · · · · · · · · ·			
Compliance notes	There is general compliance with the safety/EMC 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 - the perfect extension	www.fujitsu.com/warranty	
Support Pack Options	Available in major metropolitan 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	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/	
Service Weblink	www.fujitsu.com/services/product-services	

Fujitsu products, solutions & services

In addition to Fujitsu ETERNUS DX600 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 DX600 S5, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/global/products/ computing/storage/disk/eternus-dx/ dx600-s5/

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/global/about/environment



Copyrights

All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see http://www.fujitsu.com/emeia/resources/navigation/terms-of-use. html

Copyright 2022 Fujitsu Limited

<u>Disclai</u>mer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

Contact

Fujitsu Limited Website: www.fujitsu.com/eternus 2023-01-02 WW-EN