

Data Sheet FUJITSU Storage ETERNUS DX8900 S3 Disk System

Enterprise Storage with leading scalability in capacity and performance



ETERNUS DX - Business-centric Storage

Combining leading performance architecture with automated quality of service management the Fujitsu Storage ETERNUS DX series aligns storage resources with business priorities, thus enabling higher system utilization and delivering increased system consolidation capabilities and a faster ROI. Unified scalable entry-level and midrange systems, a upgrades with up to 4608 disk drives, just by seamless family concept enabling system upgrades and ETERNUS SF, the unified management suite across the product line, reduce operational and migration costs. ETERNUS SF provides enterpriseclass functionalities in the entry and midrange class and allows flexible disaster recovery and business continuity concepts for the different model sizes, thus decreasing investment costs

ETERNUS DX8900 S3

The ETERNUS DX8900 S3 disk storage system is purpose-built for biggest enterprises and ideal for the data management of business-critical core applications and the hyper-consolidation of large-scale data centers. ETERNUS DX8900 S3 provides non-disruptive capacity adding disks or complete drive enclosures. Performance of more than 4 million IOPS is provided by configurations based on 2 to 24 controllers and a maximum of 384 front-end ports for host connectivity. For simultaneous connection to different network types, FC, FCoE and iSCSI host interfaces can operate in mixed configurations.

Tiered storage optimization using a range of SAS, Nearline SAS and SSD drive options lowers the overall total cost of storage. The challenges of data exposure protection are addressed by self-encrypting drives (SED). Flexible and automated management across different quality of service profiles, using different drive types for each application scenario, ensures efficient assignment of system resources matched to the performance priorities of different applications. Highest availability and seamless business continuity is guaranteed by redundant interconnections to the storage array and internal redundant components and completed by transparent failover which ensures uninterrupted operation in case of an outage.









Features & Benefits

Main Features	Benefits
Flexible scalability in capacity and performance	
	 Future-oriented scale-out architecture and upgrade options meet today's and tomorrow's business requirements Low cost of growth ensures investment protection Superior system utilization Large scale storage consolidation Leading performance by design
Automation to manage unpredictable data growth	5 5
	 Automatically aligned storage performance with business priorities Minimized manual tuning efforts Optimized service level fulfillment
Zero downtime for business critical data	.,
	 Predictable and reliable operation through end-to-end redundancy, comprehensive high-availability and disaster resilience functions Multi-level disaster recovery with various snapshot concepts and remote replication between different models and generations Highest business continuity by transparent failover and non-disruptive maintenance as well as upgrade capabilities

Page 2 / 6 www.fujitsu.com/eternus

Models and architecture

ETERNUS DX8000 S3 Series

- The massively scalable Fujitsu Storage ETERNUS DX8000 S3 series, the flagship systems of the ETERNUS DX family are purpose-built for behemoth data centers which require outstanding storage performance and huge capacity paired with enterprise-class resiliency and 99.9999% availability. Its automated quality of service management features guarantee maximum system utilization and contribute to a fast ROI.
- It is the perfect solution when consolidating data in OLTP and large-scale databases, file services, business-critical applications and business analytics / big data all into one system. It provides ample headroom for any demanding virtualization environments. Extensive high-availability and disaster recovery capabilities make ETERNUS DX8000 S3 the ideal storage systems for all business-critical data and fit perfectly in private and public cloud environments of large-scale enterprises and service providers.

Page 3 / 6 www.fujitsu.com/eternus

Technical details

General system information				
deneral system information	Frontend Enclosure			
No. of controllers	2 - 24			
No. of host interfaces	384 (FC), 192 (iSCSI/FCoE)			
Maximum Cache Capacity	6,144 GB			
extreme Cache	67.2 TB			
extreme Cache Pool	38.4 TB			
Maximum Disk Drives	4,608			
Max. no. of drive enclosures	192			
Redundancy	RAID Controller			
,	Power supply			
	Fan			
upported RAID levels	0, 1, 1+0, 5, 5+0, 6			
lost Interfaces	Fibre Channel (16 Gbit/s)			
	iSCSI (10 Gbit/s, 1 Gbit/s)			
	FCoE (10 Gbit/s)			
Nixed host interfaces	Yes			
Лах. no. of hosts	8,192			
Naximum Storage Capacity	13,824 TB			
Orive Type	2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB)			
	2.5-inch, SAS, 10,000 rpm (1.2 TB / 900 GB / 600 GB / 300 GB)			
	2.5-inch, SAS (self-encrypting), 10,000 rpm (1.2 TB / 900 GB)			
	2.5-inch, SSD (1.6 TB / 800 GB / 400 GB)			
	2.5-inch, SSD (self-encrypting) (800 GB)			
	3.5-inch, Nearline SAS, 7,200 rpm (6 TB / 4 TB / 2TB)			
	3.5-inch, Nearline SAS (self-encrypting), 7,200 rpm (4 TB)			
	3.5-inch, SSD (1.6 TB / 800 GB / 400 GB)			
4: 2 1:	3.5-inch, SSD (self-encrypting) (800 GB)			
Nixed 2.5 inch/ 3.5 inch drive enclosures	Yes Social Attached SCSI (12 Chit/c)			
Max. no. of LUNs	Serial Attached SCSI (12 Gbit/s)			
	65,535			
Max. LUN capacity	128 TB			
	Yes			
hin Provisioning Quality of Service	Yes Yes			
<u> </u>	ICS			
Performance	(ALIODC			
Random access performance	4M IOPS			
Business Continuity Features				
No. of snapshots - max.	32,768			
Max. no. of copy generations	512			
Remote Copy functionality	Synchronous and asynchronous			
security features	HTTPS (SSL), One Time Password, RADIUS			
Options				
Storage Cluster	Yes			
Automated QoS	Yes	Yes		
Automated Storage Tiering	Yes			
Reporting function	Yes			
neporting runetion	·			

Page 4 / 6 www.fujitsu.com/eternus

Dynamic configuration							
Hot part replacement	Yes	Yes					
Administration	Web-based graphical use	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							
Power voltage	AC 200 - 240 V						
	Frontend Enclosure	Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure			
Dimensions (W x D x H)	482 x 795 x 222 mm 19 x 31.3 x 8.7 inch 5 U	482 x 809 x 133 mm 19 x 31.9 x 5.2 inch 3 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			
Weight	64 kg (141 lb)	54 kg (119 lb)	35 kg (77 lb)	35 kg (77 lb)			
Maximum Power Consumption (AC 200 - 240 V)	560 W (590 VA)	1,200 W (1,220 VA)	430 W (440 VA)	340 W (350 VA)			
Environment							
Temperature (operating)	10 - 35 ℃	10 - 35 ℃					
Temperature (not operating)	0 - 50 °C	0 - 50 ℃					
lumidity (operating)	20 - 80 %	20 - 80 %					
lumidity (not operating)	8 - 80 % (relative humidi	8 - 80 % (relative humidity, non-condensing)					
Гуре	Frontend Enclosure	Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Drive Enclosure			
Maximum Heat Generation (AC 200 - 240 V)	2,020 kJ/h	4,330 kJ/h	1,600 kJ/h	1,300 kJ/h			
Compliance							
Product safety	CSA 60950-1, CSA-C22.2	CSA 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R					
Electromagnetic Compatibility	CNS 13438, FCC CFR 47 cl	CNS 13438, FCC CFR 47 class A , ICES 003 Class A, EN 55022 Class A, VCCI Class A, AS/NZS CISPR 22 Class A, EN 55024					
E certification	2004/108/EC, 2006/95/EC	2004/108/EC, 2006/95/EC, 2011/65/EC					
Environmental compliance	RoHS compliant, WEEE co						
Compliance notes	There is general complian approvals required in ord	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	http://globalsp.ts.fujitsu.	http://globalsp.ts.fujitsu.com/sites/certificates					
Warranty							
Varranty period	3 years	3 years					
Varranty type	Onsite warranty	Onsite warranty					
Warranty Terms & Conditions	www.fujitsu.com/support						
roduct Support Services - the perfe							
Support Pack Options	Available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time 24x7, 4h Onsite Response Time						
Recommended Service	24x7, Onsite Response Ti	24x7, Onsite Response Time: 4h					
Service Lifecycle	5 years after end of produ	5 years after end of product life					
Service Weblink	www.fujitsu.com/services/product-services						

Page 5 / 6 www.fujitsu.com/eternus

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX8900 S3, 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 DX8900 S3, 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/global/about/environment



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Page 6 / 6 www.fujitsu.com/eternus