

Data Sheet FUJITSU Storage ETERNUS DX200F All-Flash-Array

Superior performance at reasonable cost



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 ETERNUS DX series. The system delivers impressive 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 DX200F

The ETERNUS DX200F is the ideal choice for application scenarios with demanding data and performance requirements. Unlike purpose-built expensive all-flash arrays based on special architectures, it features the standard high-performance architecture of the IOPS performance with lowest latency even at full load. Thus it offers a solution that resolves all performance issues in critical applications – such as real-time business analytics or VDI environments without requiring any complicated tuning. Flexible and scalable ready-to-run configurations, priced substantially lower than customized flash systems, makes both acquisition and installation affordable, quick and easy.









Features & Benefits

Main Features	Benefits
Based on ETERNUS DX standard architecture	
	■ Performance optimized design
	Proven and mature technology
	 Substantially less expensive than purpose-built flash storage systems
	Can be managed together with all other ETERNUS DX systems via central management console
Flexible SSD-based system	
	 Immediately solves the performance problems of business critical applications
	No complicated tuning measures required
	Scalable in capacity and connectivity
Quality-of-Service and Thin Provisioning	
,	Control of applications priorities according to business needs.
	 Capacity optimization consisting of over-provisioning and the new space reclamation feature returning deleted capacity back to the disk pool.
Storage Cluster Option/Transparent failover	
	 Avoid planned or unplanned downtimes Business continuity without any investment in additional storage virtualization layers
Convincing access performance and latency	
 Random access performance: Up to 760,000 IOPS (4 KB Blocks) Sequential access performance: Max. 12 GB/s (128 KB Blocks) Latency: Less than 0.1 ms (4 KB Blocks) 	 Sufficient performance for all applications requiring high data rates and low response times
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Page 2 / 6 www.fujitsu.com/eternus

Technical details

Consel system information		
General system information No. of controllers	ີ	
No. of host interfaces	2 9 posts	
	8 ports 16 GB	
Maximum Cache Capacity Maximum Disk Drives	24	
	RAID Controller	
Redundancy	Power supply	
	Fan	
Constant DAID Lovels		
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6	
Host Interfaces	Fibre Channel (16 Gbit/s) iSCSI (10 Gbit/s)	
Max. no. of hosts	1,024	
Maximum Storage Capacity	38.4 TB	
Drive Type	2.5-inch, SSD (1.6 TB / 800 GB)	
Drive Type Drive interface	Serial Attached SCSI (12 Gbit/s)	
Back-end disk connectivity	1 pair of four-lane x 12 Gbit/s Serial Attached SCSI buses (SAS 3.0 wide)	
Max. no. of LUNs	1,536	
Thin Provisioning	Yes	
Quality of Service	Yes	
·	ic3	
Performance	WW. 00 . D. 1400	
Latency	Write 88 µs, Read 180 µs	
Sequential access performance	760,000 IOPS (100 % Read, 4 KB Blocks)	
Random access performance	430,000 IOPS (100 % Read, 4 KB Blocks)	
Business Continuity Features		
No. of snapshots - max.	1,536	
Max. no. of copy generations	512	
Remote Copy functionality	Synchronous and asynchronous	
Data protection features	Cache Protection, Data Block Guard, Data Encryption, Dedicated Hot Spare, Disk Drive Patrol, Global Hot Spare	
Security features	HTTPS (SSL), One Time Password, RADIUS, SSH	
Options		
Reporting function	Yes	
Note	Options can be activated via ETERNUS SF Software	
Non-disruptive firmware upgrade	Yes	
RAID migration	Yes	
LUN online expansion w/o interruption	Yes	
Wide striping	Yes	
Hot part replacement/ expansion	Yes	
Management		
Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)	
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.6	
Administration	Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF	
Remote Support	Event notification (E-mail / SNMP / Syslog), Remote maintenance	

Page 3 / 6 www.fujitsu.com/eternus

Supported OS for ETERNIIS SE Everos	
Supported OS for ETERNUS SF Expres	
Operation Management Server	Windows Server® 2012 R2 Datacenter
	Windows Server® 2012 R2 Standard Windows Server® 2012 Datacenter
	Windows Server® 2012 Standard
	Windows Server® 2008 R2 Datacenter
	Windows Server® 2008 R2 Enterprise
	Windows Server® 2008 R2 Standard
	Windows Server® 2008 Datacenter
	Windows Server® 2008 Enterprise
Operation Management Client	Windows 7 Home Premium
	Windows 7 Professional
	Windows 7 Ultimate Windows Vista® Home Basic
	Windows Vista® Home Premium
	Windows Vista® Business
	Windows Vista® Enterprise
	Windows Vista® Ultimate
	Windows® XP Home Edition
	Windows® XP Professional
	Windows Server® 2008 Standard
	Windows Server® 2008 Enterprise Windows Server® 2008 Datacenter
	Windows Server® 2012 Standard
	Windows Server® 2012 Datacenter
	Windows Server® 2012 R2 Standard
	Windows Server® 2012 R2 Datacenter
Note	See the ETERNUS SF datasheet for further options
Supported configurations	All major host operating systems, servers and business applications
	Detailed support matrix:
	http://www.fujitsu.com/global/services/computing/storage/eternus/products/diskstorage/dx200/#Tab0-4
Installation specification	
19" rackmount	Yes
Service Area	Front: 850 mm (33.5 inch) or more
	Rear: 850 mm (33.5 inch) or more
Power voltage	AC 100 - 120 V / AC 200 - 240 V
Power frequency	50 / 60 Hz
Power supply efficiency	92 % (80 PLUS gold)
Maximum Power Consumption	AC 100 - 120 V: 790 W (800 VA)
Maximum Power Consumption	AC 200 - 240 V: 790 W (800 VA)
Power phase	Single
Dimensions (W x D x H)	482 x 645 x 88 mm
Difficusions (W X D X H)	19 x 25.4 x 3.5 inch
	2 U
Weight	35 kg (77 lb)
Environment	
Maximum Heat Generation	AC 100 - 120 V: 2,900: kJ/h
MIDELLE CHIEFACION	AC 200 - 240 V: 2,900: kJ/h
Tomporaturo /operation-1	
Temperature (operating)	10 - 40 °C
Temperature (not operating)	0 - 50 °C
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	8 - 80 % (relative humidity, non-condensing)
	3,000 m (10,000 ft.)
Altitude	-1 (-1 1
	47dB(A)
Sound pressure (LpAm)	
Altitude Sound pressure (LpAm) Sound power (LWAd; 1B = 10dB) Noise notes	47dB(A)

Page 4 / 6 www.fujitsu.com/eternus

Environment	
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Compliance	
Product safety	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, GOST-R
Electromagnetic Compatibility	CNS 13438, FCC CFR 47 class A , ICES 003 Class A, EN 55022 Class A, VCCI Class A, AS/NZS CISPR 22 Class A
Electromagnetic Immunity	EN 55024
CE certification	2004/108/EC, 2006/95/EC, 2011/65/EC
Approvals	CB, CE, C-Tick, FCC, EAC, GS, VCCI
Environmental compliance	RoHS compliant, WEEE compliant
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. Nationa approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates
Warranty	
Warranty period	3 years
Warrenty type	Onsite warranty
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/
Product Support Services - the perfe	ect extension
Support Pack Options	Globally 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 Time: 4h
Service Lifecycle	5 years after end of product life
Service Weblink	http://www.fujitsu.com/support

Page 5 / 6 www.fujitsu.com/eternus

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX200F, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build 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 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

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS DX200F, 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