FUJITSU

Data Sheet
Fujitsu ETERNUS DX8700 S2

The Flexible Data Safe for Dynamic Infrastructures

ETERNUS DX S2 DISK STORAGE SYSTEMS

Based on a unique consistent system design ETERNUS DX is a seamless family of disk storage systems ranging from the entry-level to the high-end data center class. Compatible product components and a uniform system management across the product line enable very efficient operational and maintenance processes which reduce running costs. This enables a smooth migration from small to bigger systems with fewer growth costs. Fujitsu has developed a leading performance architecture that has proven to be effective in many customer installations and in published performance benchmarks. It delivers stable response times even during peak loads. The comprehensive system configuration flexibility of ETERNUS DX makes it easy to balance user requirements in terms of speed, capacity and costs. Rich and innovative data safety functions ensure the reliable and secure management of enterprise data. Building on 40 years of experience in storage development and using the skills of 1,000 storage engineers, ETERNUS DX makes Fujitsu a major challenger in the global disk storage market.

ETERNUS DX8700 S2

The ETERNUS DX8700 S2 enterprise disk storage system, with powerful Intel Xeon processors and multi-dimensional scalability, is purpose built for large enterprises. ETERNUS DX8700 S2 provides non-disruptive capacity upgrades up to 3,072 disk drives, just by adding disks or complete drive enclosures. Maximum performance is provided by configurations based on from 2 to 8 controller units, with maximal 128 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 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.

System robustness with redundant interconnections to the storage array, internal redundant components and local data copy options ensure high availability for today's non-stop business. Remote replication to a second storage device protects all valuable data assets across the entire enterprise against site outages.

Green IT

Green Policy Innovation

Green Product
This product cleared our company's original evaluation standard which followed global environmental measures.

intel Xeon inside™

Features & Benefits

Main Features	Benefits
High end storage for large data centers	■ Fail-safe system design reduces downtime to a minimum ■ Multi-dimensional scalability in terms of speed, capacity and availability provides the headroom for huge data growth ■ High level of automation optimizes operational efficiency
Supports flexible growth without high pre-investments	■ Unique modular architecture that can be flexibly expanded ■ Start with minimum initial costs an grow flexibly with minimum fix-stepped costs ■ No hidden software costs through simple, fixed-price license scheme
Unique and consistent family concept	■ Seamless and fully compatible product family of disk storage systems with uniform system components and unified management software ■ Family concept reduces operations, maintenance, migration and training efforts as well as costs

Technical details

General system information

No. of controllers	2-8
No. of host interfaces	4 – 128 ports
Max. cache capacity	1,152 GB
Max. no. of drives	3,072
Redundancies	RAID Controller Power supply Fan
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6
Host interfaces	Fibre Channel (16 Gbit/s, 8 Gbit/s, 4 Gbit/s, 2 Gbit/s) FCoE (10 Gbit/s) iSCSI (10 Gbit/s, 1 Gbit/s)
Mixed host interfaces	Yes
Max. no. of hosts	8,192
Max. storage capacity - physical	6,144.0 TB
Drive Type	2.5-inch, SAS, 15,000 rpm (300 GB) 2.5-inch, SAS, 10,000 rpm (900 GB / 600 GB / 450 GB / 300 GB) 2.5-inch, SAS (self-encrypting), 10,000 rpm (900 GB / 600 GB / 450 GB / 300 GB) 2.5-inch, Nearline SAS, 7,200 rpm (1 TB) 2.5-inch, SSD, SLC (400 GB / 200 GB / 100 GB) 2.5-inch, SSD, MLC (800 GB) 3.5-inch, SAS, 15,000 rpm (600 GB / 450 GB / 300 GB) 3.5-inch, Nearline SAS, 7,200 rpm (4 TB / 3 TB / 2 TB / 1 TB) 3.5-inch, SSD, SLC (400 GB / 200 GB / 100 GB) 3.5-inch, SSD, MLC (800 GB)
Max. no. of SSDs	unlimited
Mixed 2.5 inch/ 3.5 inch drive enclosures	Yes
Drive interface	Serial Attached SCSI (6 Gbit/s)
Back-end disk connectivity	32 pairs of four-lane x 6 Gbit/s Serial Attached SCSI buses (SAS 2.0 wide)
Max. no. of LUNs	65,535
Max. LUN capacity	128 TB
Eco-mode	Yes
Thin Provisioning	Yes
Quality of Service	Yes

Business Continuity Features

No. of snapshots - max.	32,768
Max. no. of copy generations	256

Options

Automated Storage Tiering	Yes
Reporting function	Yes
Note	Options can be activated via ETERNUS SF Software

Management

Interfaces	Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)
Supported protocols	SNMP (version1, 2C, 3), SMI-S 1.4
Administration	Web-based graphical user interface, CLI (Command Line Interface)
Supported configurations	All major host operating systems, servers and business applications Detailed support matrix: http://ts.fujitsu.com/products/storage/matrixEP.html

Installation specification

Dimension (W x D x H) - standard	482 x up to 670 x 88 mm

Installation specification

Weight	Max. 350 kg (770 lbs)
Service Area	Front: 800 mm (31.5 inch) or more
	Rear: 800 mm (31.5 inch) or more
Power voltage	AC 200 - 240 V
Power frequency	50 / 60 Hz
Maximum Power Consumption	76,450 W (78,030 VA)
Power phase	Single
Dimensions (W x D x H)	482 x 940 x 840 mm
	19 x 37 x 33.1 inch
	19 U
Weight	225 kg (496 lb)

Environmental

Maximum Heat Generation	281,350: kJ/h
Temperature (operating)	10 - 35 ℃ (50 - 95 ℉)
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Altitude	3,000 m (10,000 ft.)
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
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	FCC Part-15 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
Approvals	CB, CE, C-Tick, FCC, GOST, 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. 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.com/sites/certificates

Warranty

Service level	Onsite Service
Warranty Terms & Conditions	www.fujitsu.com/support

Maintenance and Support Services - the perfect extension

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 Time: 4h
Service Lifecycle	5 years after end of product life
Service Weblink	www.fujitsu.com/services/product-services

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX8700 S2, 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/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS DX8700 S2, 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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