

Data Sheet Fujitsu ETERNUS DX100 S3 Disk Storage System

The all-in-one storage system for SMBs or subsidiaries



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 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 concepts for the different model sizes, thus decreasing investment costs.

ETERNUS DX100 S3

The scalable and unified Fujitsu Storage ETERNUS DX100 S3 delivers enterprise-class functionality to small and medium-sized companies and subsidiaries with an excellent price/performance ratio. It is the perfect solution when consolidating data for server virtualization, e-mail, databases and business applications as well as centralized file services. Simple, intuitive system management, highly flexible network connectivity and the option of field upgrades to higher system classes significantly reduce operational and migration costs. The ETERNUS DX family architecture lets customers benefit from software options, such as thin provisioning, automatic storage tiering and quality of service management even as early as the entry-level class. This all contributes to better business support.









Features & Benefits

| Main Features | Benefits | | | |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Excellent price-performance in the entry-class | | | | |
| | Performance and capacity headroom enable data consolidation for server virtualization, e-mail, databases and business applications in one system High scalability within the system and upgrade options to bigger systems support high data increases at low costs of growth and ensure investment protection | | | |
| Enterprise-class management functions in the entry class | server virtualization, e-mail, databases and business applications in one system High scalability within the system and upgrade options to bigger systems support high data increases at low costs of growth and ensure investment protection Richly featured ETERNUS SF Express management suite at no extra cost Intelligent snapshot functionality for backup already included Easy and efficient operation with a minimum of administration efforts Unified SAN and NAS access drive system utilization improving ROI Unified management functions across the entire product line result in operational efficiency | | | |
| | Richly featured ETERNUS SF Express management suite at no extra | | | |
| | | | | |
| | ■ Easy and efficient operation with a minimum of administration | | | |
| Truly unified architecture | | | | |
| may annied dicinectate | Unified SAN and NAS access drive system utilization improving ROI Unified management functions across the entire product line result in operational efficiency Unified connectivity supports a large range and many combinations of networking types Unified architecture allows flexible combinations of 2.5" and 3.5" disk types | | | |

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Technical details

| General system information | | | | | | |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------|--|--|--|--|
| | 2.5-inch Controller Enclosure 3.5-inch Controller Enclosure | ! | | | | |
| No. of controllers | 1/2 | | | | | |
| No. of host interfaces | 2/4/8 ports [FC, iSCSI, FCoE, SAS, Ethernet(10Gbit/s)], 4/8/16 ports [Ethernet(1Gbit/s)] | | | | | |
| Max. cache capacity | 8 GB (block) / 8 GB + 8 GB (block + file) | | | | | |
| Max. no. of drives | 144 | | | | | |
| Max. no. of drive enclosures | 10 | | | | | |
| Note | 5 with all 2.5" DE, 10 with all 3.5" DE, 2 with HD-DE or mixture of DEs up to Max no. Drive | | | | | |
| Redundancies | RAID Controller (in 2-controller configuration) | | | | | |
| | Fan | | | | | |
| | Power supply | | | | | |
| Supported RAID levels | 0, 1, 1+0, 5, 5+0, 6 | | | | | |
| Host interfaces | Fibre Channel (16 Gbit/s, 8 Gbit/s, 4 Gbit/s) | | | | | |
| | FCoE (10 Gbit/s) | | | | | |
| | iSCSI (10 Gbit/s, 1 Gbit/s) | | | | | |
| | Ethernet (10 Gbit/s, 1 Gbit/s) | | | | | |
| | SAS(6 Gbit/s, 3 Gbit/s) - available in July 2014 | | | | | |
| Mixed host interfaces | Yes | | | | | |
| Max. no. of hosts | 1,024 | | | | | |
| Supported NAS protocols | CIFS (SMB 2.0), NFSv2, NFSv3, NFSv4 | | | | | |
| Max. storage capacity - physical | 576 TB | | | | | |
| Drive Type | 2.5-inch, SAS, 15,000 rpm (300 GB) | | | | | |
| | 2.5-inch, SAS, 10,000 rpm (1,200 GB / 900 GB / 600 GB / 300 GB) | | | | | |
| | 2.5-inch, SAS (self-encrypting), 10,000 rpm (1,200 GB / 900 GB) | | | | | |
| | 2.5-inch, Nearline SAS, 7,200 rpm (1 TB) | | | | | |
| | 2.5-inch, SSD (800 GB / 400 GB) 3.5-inch, Nearline SAS, 7,200 rpm (4 TB / 3 TB / 2 TB) | | | | | |
| | 3.5 inch, SSD (800 GB / 400 GB) | | | | | |
| Note | 2.5-inch drives are available only for 2.5-inch drive enclosures and 3.5-inch drives are available only for | r 3.5-inch driv | | | | |
| | enclosures. | | | | | |
| Max. no. of SSDs | unlimited | | | | | |
| Mixed 2.5 inch/ 3.5 inch drive enclosures | Yes | | | | | |
| 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 | 2,048 | 2,048 | | | | |
| Max. LUN capacity | 128 TB | | | | | |
| Eco-mode | Yes | | | | | |
| Thin Provisioning | Yes | | | | | |
| Quality of Service | Yes | | | | | |
| Business Continuity Features | | | | | | |
| No. of snapshots - max. | 1,024 | | | | | |
| Max. no. of copy generations | 512 | | | | | |
| Data protection features | Cache Protection, Data Block Guard, Data Encryption, Dedicated Hot Spare, Disk Drive Patrol, Globa | l Hot Spare | | | | |
| Security features | HTTPS (SSL), One Time Password, RADIUS, SSH | <u>.</u> | | | | |
| Options | | | | | | |
| Automated Storage Tiering | Yes | | | | | |
| Reporting function | Yes | | | | | |
| Note | Options can be activated via ETERNUS SF Software | | | | | |

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| Field model upgrade to ETERNUS DX200 S3 to ETERNUS DX300 S3 RAD migration Yes LUN online expansion wio interruption Yes Management Interfaces Ethernet (1000 Base IT 100 Base IX 100 Base IX) Management Web based graphical user interface, CLI (Command Line Interface), ETERNUS SF Supported DX for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Datacenter Windows Server* 2012 Datacenter Windows Server* 2012 R2 Datacenter Windows Server* 2012 Batacenter Windows Server* 2018 R2 Standard Windows Vestar* Home Plemium Windows Vistar* Home Plemium Windows Server* 2018 Batacenter Windows Server* 2012 R2 Datacenter Windows Serve | | |
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| De FIERNUS DISCOIS 3 Incomplete firmware upgrade Yes | Dynamic configuration | |
| Non-disruptive firmware upgrade PVes INUIN online expansion with interpretation PVes INUIN online expansion with interpretation PVes INUIN online expansion with interplacement/ expansion PVes INTERPRETATION PVES | Field model upgrade | to ETERNUS DX200 S3 |
| Non-disruptive firmware upgrade Ves | | to ETERNUS DX500 S3 |
| RAD migration Wide striping Yes Wide striping Yes Hot part replacement/ expansion Was striping Yes Hot part replacement/ expansion Was pagement Interfaces Ethernet (1000 Base T7 100 Base TX 10 Base T) Supported protocols SMNP (Persioni, Z.C, 3), MMS 11.6 Administration Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF Supported OS of ETERNUS SF Express Operation Management Server Windows Server® 2012 P.2 Datarcenter Windows Server® 2018 P.2 Datarcenter Windows Wash ** Home Briston Windows Wash ** Home Briston Windows Wash ** Home Briston Windows Wash ** Union Briston Windows Server® 2018 P.2 Datarcenter Windows Server® 2018 P. | | to ETERNUS DX600 S3 |
| LUN online expansion wito interruption Yes | Non-disruptive firmware upgrade | Yes |
| Wide striping **Pos** Management Interfaces **Ethernet** (1000 Base-T / 100 Base-TX / 10 Base- | RAID migration | Yes |
| Wide striping **Pos** Management Interfaces **Ethernet** (1000 Base-T / 100 Base-TX / 10 Base- | LUN online expansion w/o interruption | Yes |
| Management | _ | Yes |
| Interface Supported protocols SUMP (version 1, 2C, 3), SMI S 1, 6 Administration Web based graphical user interface, CIT (command Line Interface), ETERNUS SP Supported OS for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Standard Windows Server* 2015 R2 Datacenter Windows Server* 2016 R2 Datacenter Windows Server* 2017 R2 Standard Windows Server* 2017 R2 Datacenter W | Hot part replacement/ expansion | Yes |
| Interface Supported protocols SUMP (version 1, 2C, 3), SMI S 1, 6 Administration Web based graphical user interface, CIT (command Line Interface), ETERNUS SP Supported OS for ETERNUS SF Express Operation Management Server Windows Server* 2012 R2 Standard Windows Server* 2015 R2 Datacenter Windows Server* 2016 R2 Datacenter Windows Server* 2017 R2 Standard Windows Server* 2017 R2 Datacenter W | Management | |
| Supported protocols Administration Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF Supported OS for ETERNUS SF Express Operation Management Server Windows Server® 2012 R2 Standard Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2018 R2 Standard Windows Server® 2008 Enterprise Windows Standard Windows Standard Windows Standard Windows Standard Windows Standard Windows Server® 2008 Enterprise Windows Standard Windows Server® 2008 Standard Windows Server® 2008 Standard Windows Server® 2008 Enterprise Windows | | Ethornet /1000 Page T / 100 Page TV / 10 Page TV |
| Supported OS for ETERNUS SE Express | | |
| Supported OS for ETERNUS SF Express Operation Management Server Windows Server® 2012 R2 Datacenter Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2012 Standard Windows Server® 2018 R2 Enterprise Windows Server® 2008 Enterprise Windows Server® 2012 R2 Enterprise W | | |
| Windows Server* 2012 R2 Datacenter Windows Server* 2012 R2 Datacenter Windows Server* 2012 R2 Standard Windows Server* 2012 R2 Datacenter Windows Server* 2012 R2 Datacenter Windows Server* 2008 R2 Enterprise Windows Server* 2008 Enterprise Windows Server* 2008 Enterprise Windows Patacenter Windows | Administration | web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF |
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| Windows Server® 2012 Standard Windows Server® 2008 R2 Standard Windows Server® 2008 Enterprise Operation Management Client Windows P Professional Windows P Tultimate Windows Vista® Home Basic Windows Vista® Home Permitun Windows Vista® Home Permitun Windows Vista® Wista® Enterprise Windows Vista® Windows Vista® Wista® W | Operation Management Server | Windows Server® 2012 R2 Datacenter |
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| Windows Server® 2008 R2 Datacenter Windows Server® 2008 R2 Enterprise Windows Server® 2008 R2 Enterprise Windows Server® 2008 Datacenter Windows Server® 2008 Datacenter Windows Server® 2008 Datacenter Windows® 7 Home Premium Windows® 7 Professional Windows 9 T Ultimate Windows Vista® Home Basic Windows Vista® Home Basic Windows Vista® Home Demium Windows Vista® Business Windows Vista® Business Windows Vista® Ultimate Windows Vista® Ultimate Windows Server® 2008 Enterprise Windows Server® 2008 Datacenter Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Datacenter Windows Server® 2012 R2 Datacenter Windows Server® 2012 R2 Datacenter Windows Server® 2012 R2 Standard Windows 2012 R2 Standard Windows 2012 R2 Standard | | |
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| Windows Server® 2008 Enterprise | | Windows Server® 2008 R2 Enterprise |
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| Windows 7 Home Premium Windows 7 Ultimate Windows 7 Ultimate Windows 7 Ultimate Windows 1/545 Home Basic Windows 1/545 Home Basic Windows 1/545 Home Premium Windows 1/545 Business | | Windows Server® 2008 Datacenter |
| Windows 9 7 Professional Windows 9 7 Ultimate Windows Vista® Home Basic Windows Vista® Home Premium Windows Vista® Enterprise Windows Vista® Enterprise Windows Vista® Enterprise Windows Vista® Ultimate Windows Vista® Ultimate Windows Sva P Home Edition Windows Sva P Home Edition Windows Server® 2008 Standard Windows Server® 2008 Enterprise Windows Server® 2008 Enterprise Windows Server® 2012 Standard Windows Server® 2012 R2 Datacenter Windows Server® 2013 R2 Standard Windows Server® 2014 R2 Datacenter Windows Server® 2015 R2 Standard Windows Server® 2016 R2 R2 Datacenter Windows Server® 2017 R2 Standard Windows Server® 2017 R2 Standard Windows Server® 2018 R2 Standard Windows Server® 2017 R2 Standard Windows Server® 2018 R2 Standard Windows Server® 2018 R2 Standard Windows 2018 R2 | | Windows Server® 2008 Enterprise |
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| 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: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA) | Service Area | Front: 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: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA) | | |
| Power frequency 50 / 60 Hz Power supply efficiency 92 % (80 PLUS gold) Maximum Power Consumption AC 100 - 120 V: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA) | Power voltage | |
| Power supply efficiency 92 % (80 PLUS gold) Maximum Power Consumption AC 100 - 120 V: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA) | | |
| Maximum Power Consumption AC 100 - 120 V: 4,120 W (4,230 VA) AC 200 - 240 V: 4,120 W (4,230 VA) | | |
| AC 200 - 240 V: 4,120 W (4,230 VA) | | |
| | waximum Power Consumption | |
| Power phase Single | | |
| | Power phase | Single |

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| | 2.5-inch Controller Enclosure | 2.5-inch Drive Enclosure | 3.5-inch Controller Enclosure | 3.5-inch Drive Enclosure | High-Density Drive Enclosure | | |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|--|--|
| Dimensions (W x D x H) | 482 x 645 x 88 mm 19 x 25.4 x 3.5 inch | 482 x 540 x 88 mm 19 x 21.3 x 3.5 inch | 482 x 670 x 88 mm 19 x 26.4 x 3.5 inch | 482 x 560 x 88 mm 19 x 22 x 3.5 inch | 482 x 980 x 176 mm 19 x 38.6 x 6.9 inch | | |
| | 2 U | 2 U | 2 U | 2 U | 4 U | | |
| Weight | 35 kg (77 lb) | | | | 95 kg (209 lb) | | |
| Max. power consumption (AC 100 - 120V) | 730 W (740 VA) | 430 W (440 VA) | 630 W (640 VA) | 340 W (350 VA) | 1,300 W (1,320 VA) | | |
| Max. power consumption (AC 200 - 240V) | 730 W (740 VA) | 430 W (440 VA) | 630 W (640 VA) | 340 W (350 VA) | 1,300 W (1,320 VA) | | |
| Environmental | | | | | | | |
| Maximum Heat Generation | AC 100 - 120 V: 15,60 | 0: kJ/h | | | | | |
| | AC 200 - 240 V: 15,600: kJ/h | | | | | | |
| Temperature (operating) | 10 - 40 ℃ | | | | | | |
| emperature (not operating) | 0 - 50 ℃ | | | | | | |
| Humidity (operating) | 20 - 80 % (relative humidity, non-condensing) | | | | | | |
| lumidity (not operating) | 8 - 80 % (relative humidity, non-condensing) | | | | | | |
| Altitude | 3,000 m (10,000 ft.) | | | | | | |
| ound power (LWAd; 1B = 10dB) | 6.7B | | | | | | |
| ound pressure (LpAm) | 49dB(A) | | | | | | |
| loise notes | Measured with single enclosure according to ISO 7779 and declared according to ISO 9296 | | | | | | |
| perating environment | FTS 04230 – Guideline for Data Center (installation specification) | | | | | | |
|)perating 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 | | | | | | |
| lectromagnetic 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 | | | | | | |
| lectromagnetic Immunity | EN 55024 | | | | | | |
| E certification | 2004/108/EC, 2006/95/EC, 2011/65/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 | | | | | | |
| Varranty | | | | | | | |
| Standard Warranty | 3 years | | | | | | |
| ervice level | Onsite Service | | | | | | |
| Varranty Terms & Conditions | www.fujitsu.com/supp | oort | | | | | |
| Maintenance and Support Services - t | · · | | | | | | |
| upport 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 | | | | | | |
| Dogomera dad Cardes | | | | | | | |
| 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 OPTIMIZATION Services

In addition to Fujitsu ETERNUS DX100 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

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 DX100 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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