# Data Sheet FUJITSU Storage ETERNUS DX100 S3 Disk 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 virtualization, e-mail, databases and business 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 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 applications as well as centralized file services. Simple, intuitive system management, highly flexible 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, transparent failover and quality of service management even as early as the entry-level class. This all contributes to better business support.

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# Features & Benefits

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

# Technical details

General system information					
No. of controllers	2.5-inch Controller Enclosure     3.5-inch Controller Enclosure       1/2				
No. of host interfaces	2/4/8 ports [FC, iSCSI, FCoE, SAS, Ethernet(10Gbit/s)], 4/8/16 ports [Ethernet(1Gbit/s)]				
Maximum Cache Capacity					
Extreme Cache Pool	8 GB (block) / 8 GB + 8 GB (block + file) 800 GB				
Maximum Disk 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. Drives				
Supported RAID levels					
Host Interfaces	0, 1, 1+0, 5, 5+0, 6 Fibre Channel (16 Gbit/s, 8 Gbit/s, 4 Gbit/s)				
	FCDE (10 Gbit/s) FCDE (10 Gbit/s)				
	iSCSI (10 Gbit/s, 1 Gbit/s)				
	Ethernet (10 Gbit/s, 1 Gbit/s)				
	SAS (6 Gbit/s, 3 Gbit/s)				
Mixed host interfaces	Yes				
Max. no. of hosts	1,024				
Supported NAS protocols	CIFS (SMB 2.0), CIFS (SMB 3.0), NFSv2, NFSv3				
Maximum Storage Capacity	1,152 TB				
Drive Type	2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB)				
	2.5-inch, SAS, 10,000 rpm (1.8 TB / 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, Nearline SAS, 7,200 rpm (1 TB)				
	2.5-inch, SSD (1.6 TB / 800 GB / 400 GB)				
	2.5-inch, SSD (self-encrypting) (1.6 TB / 800 GB)				
	3.5-inch, Nearline SAS, 7,200 rpm (8 TB / 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) 3.5-inch, SSD (self-encrypting) (1.6 TB / 800 GB)				
	HDDE, SAS, 10,000 rpm (1.2 TB)				
	HDDE, Nearline SAS, 7,200 rpm (8 TB / 6 TB / 4 TB / 2 TB)				
	HDDE, SSD (1.6 TB)				
Note	2.5-inch drives are available only for 2.5-inch drive enclosures and 3.5-inch drives are available only for 3.5-inch drive				
	enclosures.				
	6 TB/ 8 TB Nearline SAS and 1.8 TB SAS drives are Advanced Format drives.				
Max. no. of SSDs	unlimited				
Mixed 2.5 inch/ 3.5 inch drive enclosures					
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				
Max. LUN capacity	128 TB				
No. of snapshots - max.	1,024				
Max. no. of copy generations	512 Vec				
Eco-mode	Yes				
Performance management					
Automated Storage Tiering	Yes				
Quality of Service	Yes				
Automated QoS	Yes				
	Yes				
Wide striping	Yes				

Storage Cluster     Yes       Remote Copy functionality     Synchrnous and asynchronous       Note     Options can be activated with FTERNUS S Software       Information security management     Self-Encrypting Disk. Controller based Encryption, HTIPS (SSL), One Time Password, RADUS, SSH       Data integrity     Self-Encrypting Disk. Controller based Encryption, HTIPS (SSL), One Time Password, RADUS, SSH       Availability management     Cache Protection, Data Bitch, Disk Dive Pariot       Availability management     Yes       Rod disciptive maintenance     Dedicatel Hot Space, Clubal Hot Space       Non-disciptive maintenance     Dedicatel Hot Space, Clubal Hot Space       Non-disciptive maintenance     Dedicatel Hot Space, Clubal Hot Space       Rodundarcy     RAD Controller (in 2 controller configuration), Fan, Power supply       Hot part raplacement     Yes       RAD migration     Yes       Roporting function     Yes       Roporting function     Yes       Management     Test       Interfaces     Ethermet (1000 Base-T/110 Base-TX/10 Base-T)       Supported protocols     SIMP (version1, 2C. 3), SMI-51.6       Administration     Web-based caphical user interface, UI (command Line Interface), ETERNDS SF       Remote Support     Windows Server* 2012 ID attractive Windows S					
Renote Copy functionality         Synchronous and asynchronous           Note         Options can be activated via ELRNUS SP Software           Information security management         Data confidentiality           Self Encrypting Disk, Controller based Encryption, HTTPS (SSL), One Time Password, (ADULS, SSH           Availability management         Each Protection, Data Block Guard, Disk Drive Patrol           Availability management         Period State Protection, Data Block Guard, Disk Drive Patrol           Availability management         Declated Hot Spare, Global Hot Spare           Redundancy         Reducted Hot Spare, Global Hot Spare           Non-discryptic Minware upgrade         Yes           Redundancy         RAID Controller (in 2-controller configuration), Fan, Power supply           Hot part expansion wio interruption         Yes           RAD ingration         Yes           Management         Interfaces           Interfaces         Ethernet (1000 Base-T / 100 Base-TX / 10 Base-T)           Supported protocols         SMMV (version 1, 2q, 3); 3) Mis 16           Administration         Web based guardinates, CUI (command Line Interface), ETRNUS SF           Remote Support         Event notification (#-mail / SNMP / Systog), Remote maintenance           Supported OS for ETERNUS SF Express         Option Ranagement Windrows Servet* 2012 Batacenter           Windrow	Continuity management	V			
Note         Options can be activated via FTERNUS SF Software           Information security management         SelFEncrypting Disk, Controller based Encryption, HTPS (SSL), One Time Password, RADUS, SSH           Data confidentiality         SelFEncrypting Disk, Controller based Encryption, HTPS (SSL), One Time Password, RADUS, SSH           Availability management         Cache Protection, Data Block Guard, Disk Drive Patrol           Availability management         Ves           Non-discryptive maintenance         Dedicated Hot Spare, Global Hot Spare           Non-discryptive maintenance         Dedicated Hot Spare, Global Hot Spare           Non-discryptive maintenance         RAD Controller (in 2-controller configuration), Fan, Power supply           Not discryptive firmware upgrade         Yes           Capacity management         Yes           Tim Provisioning         Yes           Capacity management         Yes           Interfaces         Ethernet (1000 Base-T/ 100 Base-T/)           Supported protocols         SNMP (vession1, 2c. 3), SNIS 1.6           Administation         Web based graphical user interface, CI I (Command Line Interface), FTERNUS SF           Remote Support         Event notificator (Encline) TSMP / Splog), Remote maintenance           Supported Distor ETERNUS SF Express         Operation Management Client           Operation Management Client         Windows Servet					
Information security management Data confidentiality Self-Encrypting Disk, Cantroller based Encryption, HTPS (SSL), One Time Password, RADIUS, SSH Data integrity Cache Protection, Data Block Guard, Disk Drive Patrol Availability management Fast Recovery Yes Dedicated Hot Spare, Global Hot Spare Non-disciptive Imware upgrade Pers Redundary RAD Controller (In 2-controller configuration), Fan, Power supply Hot part replacement Yes Capacity management Thin Provisioning Yes Cult Vaniline separation w/o interruption Yes Non-disciptive advector Yes Mut of an expansion w/o interruption Yes Non-disciptive advector Yes Mut of the expansion w/o interruption Yes Non-disciptive advector Yes Mut of the expansion w/o interruption Yes Non-disciptive advector Yes Mut of an expansion w/o interruption Yes Non-disciptive function Yes Non-disciptive advector Yes Operation Management United Yes Operation Management Windows Servet <sup>®</sup> 2012 R2 Datacenter Windows Servet <sup>®</sup> 2012 R2 Standard Windows Servet <sup>®</sup> 2018 R2 Standard Windows Servet <sup>®</sup>					
Data ontigrity       Self-Encryption Disk, Controller based Encryption, HTTPS (SSL), One Time Password, RADUS, SSH         Data integrity       Cache Protection, Data Block Guard, Disk Drive Patrol         Fash Recovery       Yes         Non-disciptive maintenance       Dedicated Hot Spare, Global Hot Spare         Non-disciptive maintenance       Pedicated Hot Spare, Global Hot Spare         Non-disciptive maintenance       Yes         Redundancy       RAID Controller (in 2-controller configuration), Fan, Power supply         Hot part replacement       Yes         Capacity management       Time Provisioning         Hot part replacement       Yes         RAID migration       Yes         Raperints function       Yes         Hot part separation w/o interruption       Yes         Hot part expansion       Yes         Management       Interfaces         Interfaces       Ethernet (1000 Base 1/ 100		Uptions can be activated via ETERNUS SF Software			
Data integrity       Cache Protection, Data Block Guard, Disk Drive Patrol         Availability management       Dedicated Hot Spare, Global Hot Spare         Non-disruptive miniterance       Dedicated Hot Spare, Global Hot Spare         Non-disruptive miniterance       Dedicated Hot Spare, Global Hot Spare         Redundancy       RAID Controller (in 2-controller configuration), Fan, Power supply         Rot Spart Patrone       Yes         Capacity management       Yes         RaD migration       Yes         Raporting function       Yes         Reporting function       Yes         Management       Yes         Interfaces       Ethernet (1000 Base-T/100 Base-T/10 Base-T)         Supported OS for ETERNUS SF Controllication (Fand Dase-T)       Yes         Remote Support Corocols       SIMP Version1, 2C, 3), SMI-5 1.6         Administration       Verbased graphical user interface, UI (formand Line Interface), ETERNUS SF         Remote Support Corocols       SIMP Version1, 2C, 3), SMI-5 1.6         Operation Management Server       Windows Server 2012 R2 Datacenter         Windows Server 2012 R2 Datacenter       Windows Server 2012 Batacenter         Windows Server 2000 Batacenter       Windows Server 2000 Batacenter         Windows Server 2000 Batacenter       Windows Server 2000 Batacenter <td< th=""><th></th><th></th></td<>					
Availability management         Yes           Fast Recovery         Yes           Non-disruptive minimence         Dedicated Hot Spare, Global Hot Spare           Non-disruptive firmware upgrade         Yes           Redundary         RAID Controller (in 2-controller configuration), Fan, Power supply           Hot part replacement         Yes           Capacity management         Yes           Thin Provisioning         Yes           RAD migration         Yes           Non-discuptive replacement         Yes           Nu onlice expansion w/o interruption         Yes           Management         Interfaces           Ethernet (1000 Base-T/ 100 Base-T/)         Supported protocols           SMPM (versionin, Zei, SMMP (versionin, Zei, SMMP (versionin, Zei, Si, SMMS 1.6         Administration           Remote Support         Event notification (E-mail / SMMP / Syslog), Remote maintenance           Supported OS for ETERNUS SF Express         Operation Management Server* 2012 Rationatic           Vindows Server* 2012 Rationatic         Windows Server* 2012 Rationatic           Windows Server* 2012 Rationatic         Windows Server* 2012 Rationatic           Windows Server* 2018 Rationatic         Windows Server* 2018 Rationatic           Windows Server* 2018 Rationatic         Windows Server* 2018 Rationatic	•				
Fast Recovery       Yes         Non-disciptive firmware upgrade       Deckated Hot Spare         Non-disciptive firmware upgrade       Yes         Redundancy       RAID Controller (in 2-controller configuration), Fan, Power supply         Hot part replacement       Yes         Capacity management       Yes         Finite replacement on two interruption       Yes         RAID migration       Yes         Ray and the replacement on two interruption       Yes         Hot part expansion who interruption       Yes         Rapenting function       Yes         Management       Interfaces         Interfaces       Ethernet (1000 Base T/ 100 Base T/ 100 Base T)         Supported protocols       SMMP (version 1, 2C, 3), SMIS 1.6         Administration       Web based graphical user interface, CLI (Command Line Interface), ETERNUS SF         Remote Support       Event notification (E-mail / SMMP / Syslog), Remote maintenance         Supported OS for ETERNUS SF Express       Operation Management Server*         Operation Management Client       Windows Server* 2012 Batacenter         Windows Server*       Nondex Server*         Windows Server*       Standard         Windows Server*       Professional         Windows Server**       Nondex Server**	Data integrity	Cache Protection, Data Block Guard, Disk Drive Patrol			
Non-disruptive firmware upgrade         Dedicated Hot Spare, Global Hot Spare           Non-disruptive firmware upgrade         Yes           Redundancy         RAID Controller (onfiguration), Fan, Power supply           Hot part replacement         Yes           RAID migration         Yes           RAID migration         Yes           Reporting function         Yes           Reporting function         Yes           Management         Yes           Interfaces         Ethernet (1000 Base-T/ 100 Base-T)           Supported protocols         SMMP (version1, 2C, 3), SMI-5 1.6           Administration         Web based graphical user interface, CUI (command Line Interface), ETERNUS SF           Remote Support         Event notification (E-mail / SMMP / Syslog), Remote maintenance           Supported OS for ETERNUS SF Express         Yondows Server® 2012 R2 Datacenter           Windows Server® 2012 R2 Datacenter         Yendows Server® 2012 R2 Datacenter           Windows Server® 2012 R2 Datacenter         Yendows Server® 2012 Datacenter           Windows Server® 2012 R2 Datacenter         Yendows Server® 2012 Datacenter           Windows Server® 2012 R2 Datacenter         Yendows Server® 2012 Batacenter           Windows Server® 2012 Datacenter         Yendows Server® 2012 Batacenter           Windows Server® 2010 Batacenter <td< th=""><th>Availability management</th><th></th></td<>	Availability management				
Non-disruptive firmware upgrade       Yes         Redundary       RAID Controller (in 2-controller configuration), Fan, Power supply         Hot pat replacement       Yes         Capacity management       Yes         UN online expansion w/o interruption       Yes         RADD migration       Yes         UN online expansion w/o interruption       Yes         Management       Interfaces         Interfaces       Ethermet (1000 Base-T/ 100 Base-T/ 100 Base-T)         Supported protocols       SNMP (version1, 2C, 3), SMI-5 1.6         Administration       Web-based graphical user interface, CLI (command Line Interface), ETERNUS SF         Remote Support       Event notification (E-mail / SNMP / Sysleg), Remote maintenance         Supported St for ETERNUS SF Express       Operation Management Server         Operation Management Client       Windows Server® 2012 R2 Datacenter         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 Standard         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 Standard         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 Standard         Windows Server® 2012 Standard       Windows Serve® 2012 Standard         Windows Serve® 2012 Standard       Windows Serve® 2012 Standard         Windows Serve® 2012 Standard       Windows Serve® 2012 Standard	Fast Recovery	Yes			
Redundancy     RAID Controller (in 2-controller configuration), Fan, Power supply       Hot part replacement     Yes       Capacity management     Thin Provisioning       RAID migration     Yes       RAID migration     Yes       RAID migration     Yes       Reporting function     Yes       Management     Therasion       Interfaces     Ethermet (1000 Base T/ 100 Base TX / 10 Base T)       Supported protocols     SNMP (version1, 2C, 3), SMI-5 1.6       Administration     Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF       Remote Support     Event notification (E-mail / SNMP / Syslog), Remote maintenance       Supported OS for ETERNUS SF Express     Operation Management Server* 2012 R2 Datacenter       Windows Server* 2012 R2 Datacenter     Windows Server* 2012 R2 Datacenter       Windows Server* 2008 R2 Enterprise     Windows Server* 2008 R2 Datacenter       Windows Server* 2008 R2 Standard     Windows Server* 2008 R2 Standard       Windows Server* 2008 R2 Standard     Windows Server* 2008 R2 Standard       Windows Server* 2008 R2 Interprise     Windows Server* 2008 R2 Standard       Windows Server* 2008 R2 Interprise     Windows Server* 2008 R2 Interprise       Windows Vista* Interprise     Windows Vista* Interprise       Windows Vista* Interprise     Windows Vista* Interprise       Windows Server* 2012 Datacenter <td< th=""><th>Non-disruptive maintenance</th><th>Dedicated Hot Spare, Global Hot Spare</th></td<>	Non-disruptive maintenance	Dedicated Hot Spare, Global Hot Spare			
Hot part replacement       Yes         Capacity management       Thin Provisioning         Thin Provisioning       Yes         RADD migration       Yes         Reporting function       Yes         Reporting function       Yes         Management       Interfaces         Interfaces       Ethernet (1000 Base-T/ 100 Base-T/ 100 Base-T/ 100 Base-T/         Supported protocols       SNMP (version1, 2C, 3), SNI-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         Supported OS for ETERNUS SF Express       Operation Management Server* 2012 R2 Standard         Windows Server* 2012 R2 Standard       Windows Server* 2012 R2 Standard         Windows Server* 2008 R2 Datacenter       Windows Server* 2008 R2 Standard         Windows Server* 2008 R2 Standard       Windows Server* 2012 R2 Standard         Windows Server* 2008 R2 Standard       Windows Server* 2008 R2 Standard         Windows Server* 2008 R2 Standard       Windows Server* 2012 R2 Standard         Windows Server* 2012 R2 Standard       Windows Server* 2012 R2 Standard         Windows Visa* Home Premium       Windows Server* 2012 R2 Standard         Windows Visa* Eterprise       Windows Server* 2012 R2 Standard	Non-disruptive firmware upgrade	Yes			
Capacity management         Thin Provisioning       Yes         RAU migration       Yes         RAU migration       Yes         LIN online expansion w/o interruption       Yes         Reporting function       Yes         Hot part expansion       Yes         Management       Interfaces         Interfaces       Ethernet (1000 Base-T/ 100 Base-T/ 10 Base-T)         Supported protocols       SNMP (version1, Zc, 3), SM-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         Supported OS for ETERNUS SF Express       Operation Management Server         Operation Management Client       Windows Server® 2012 R2 Datacenter         Windows Server® 2018 R2 Standard       Windows Server® 2018 R2 Standard         Windows Server® 2018 R2 Enterprise       Windows Server® 2018 R2 Standard         Windows Server® 2018 R2 Standard       Windows Server® 2018 R2 Standard         Windows Server® 2018 R2 Standard       Windows Server® 2018 R12 standard         Windows Server® 2018 R12 standard       Windows Server® 2018 R12 standard         Windows Server® 2018 R12 standard       Windows Server® 2018 R12 standard         Windows Vista® Interprise       Windows Vi	Redundancy	RAID Controller (in 2-controller configuration), Fan, Power supply			
Thin Provisioning     Yes       RAD migration     Yes       LUN online expansion w/o interruption     Yes       Reporting function     Yes       Hot part expansion     Yes       Management     Ethernet (1000 Base-T/ 100 Base-T/ 10 Base-T/       Interfaces     Ethernet (1000 Base-T/ 100 Base-T/ 100 Base-T/       Supported protocols     SMMP (version1, Z, 3), SMI-S 1.6       Administration     Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF       Remote Support     Event notification (E-mail / SMMP / Syslog), Remote maintenance       Supported OS for ETERNUS SF Express     Vindows Server® 2012 R2 Datacenter       Windows Server® 2013 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R1eterpise       Windows Server® 2008 R1eterpise     Windows Server® 2008 R1eterpise       Windows Stare Home Pternium     Windows Server® 2008 R1eterpise       Windows Stare Home Reasic     Windows Server® 2012 Standard <t< th=""><th>Hot part replacement</th><th>Yes</th></t<>	Hot part replacement	Yes			
Thin Provisioning     Yes       RAD migration     Yes       LUN online expansion w/o interruption     Yes       Reporting function     Yes       Hot part expansion     Yes       Management     Ethernet (1000 Base-T/ 100 Base-T/ 10 Base-T/       Interfaces     Ethernet (1000 Base-T/ 100 Base-T/ 100 Base-T/       Supported protocols     SMMP (version1, Z, 3), SMI-S 1.6       Administration     Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF       Remote Support     Event notification (E-mail / SMMP / Syslog), Remote maintenance       Supported OS for ETERNUS SF Express     Vindows Server® 2012 R2 Datacenter       Windows Server® 2013 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard     Windows Server® 2008 R1eterpise       Windows Server® 2008 R1eterpise     Windows Server® 2008 R1eterpise       Windows Stare Home Pternium     Windows Server® 2008 R1eterpise       Windows Stare Home Reasic     Windows Server® 2012 Standard <t< th=""><th>Capacity management</th><th></th></t<>	Capacity management				
RND migration       Yes         LUN online expansion w/o interruption       Yes         Reporting function       Yes         Hot part expansion       Yes         Management       Interfaces         Ethernet (1000 Base-T/ 100 Base-TX/ 10 Base-T)         Supported protocols       SNMP (version1, 2c, 3), SMI-5 1.6         Administration       Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF         Remote Support       Event notification (E-mail / SNMP / Syslog), Remote maintenance         Supported OS for ETERNUS SF Express       Windows Server® 2012 R2 Datacenter         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Vista® Home Prenium       Windows Vista® Home Prenium         Windows Vista® Letterprise       Windows Vista® Letterprise         Windows Vista® Letterprise       Windows Vista® Letterprise         Windows Vista® Letterprise       Windows Server® 2008 Standard         Windows Server® 2008 Bitenterprise       Windows Server® 2012		Yes			
LUN online expansion w/o interruption       Yes         Reporting function       Yes         Management       Interfaces         Ethernet (1000 Base-T/ 100 Base-T/       Base-T/         Supported protocols       SNMP (version1, 2C, 3), SMI-5 1.6         Administration       Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF         Remote Support       Event notification (E-mail / SNMP / Syslog), Remote maintenance         Supported OS for ETERNUS SF Express       Operation Management Server         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Vista® Home Basic         Windows Vista® Home Pernium       Windows Vista® Home Basic         Windows Vista® Pusieness       Windows Vista® Pusieness         Windows Vista® Home Basic       Windows Server® 20					
Reporting function       Yes         Hot part expansion       Yes         Management       Interfaces         Interfaces       Ethernet (1000 Base-T/ 100 Base-T/					
Hot part expansion       Yes         Management       Interfaces         Ethermet (1000 Base-T/ 100 Base-T/ 10 Base-T)         Supported protocols       SNMP (version 1, 2C, 3), SMI-5 1.6         Administration       Web-based graphical user interface, CLI (command Line Interface), ETERNUS SF         Remote Support       Even toutification (E-mail / SNMP / Syslog), Remote maintenance         Supported OS for ETERNUS SF Express       Vindows Server® 2012 R2 Datacenter         Windows Server® 2012 D 2 Datacenter       Windows Server® 2012 Datacenter         Windows Server® 2012 D 2 Datacenter       Windows Server® 2012 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter	I I				
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Interfaces         Ethernet (1000 Base-T / 100 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           Supported OS for ETERNUS SF Express         Windows Server® 2012 R2 Datacenter           Windows Server® 2012 R2 Standard         Windows Server® 2012 R2 Standard           Windows Server® 2012 Standard         Windows Server® 2012 Standard           Windows Server® 2008 R2 Enterprise         Windows Server® 2008 R2 Enterprise           Windows Server® 2008 R2 Enterprise         Windows Server® 2008 R2 Enterprise           Windows Server® 2008 R2 Enterprise         Windows Server® 2008 R2 Enterprise           Windows Vista® Home Premium         Windows Vista® Home Premium           Windows Vista® Nome Server         Windows Vista® Home Premium           Windows Vista® Nome Server         Windows Vista® Enterprise           Windows Vista® Enterprise         Windows Vista® Enterprise           Windows Server® 2008 R2 Enterprise         Windows Vista® Enterprise           Windows Vista® Nome Premium         Windows Vista® Enterprise           Windows Vista® Enterprise         Windows Vista® Enterprise           Windows Server® 2008 Enterprise         Windows Ser	· ·				
Supported protocols       SNMP (version 1, 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         Supported OS for ETERNUS SF Express       Operation Management Server         Operation Management Server       Windows Server® 2012 R2 Datacenter         Windows Server® 2012 Datacenter       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Vista® Home Premium       Windows Vista® Home Premium         Windows Vista® Home Premium       Windows Vista® Home Premium         Windows Vista® Ultimate       Windows Vista® Business         Windows Server® 2008 Exterprise       Windows Server® 2008 Exterprise         Windows Server® 2008 Extenter       Windows Server® 2012 Standard <th>-</th> <th>Ethernet (1000 Rase-T / 100 Rase-TX / 10 Rase-T)</th>	-	Ethernet (1000 Rase-T / 100 Rase-TX / 10 Rase-T)			
Administration       Web-based graphical user interface, CLI (Command Line Interface), ETERNUS SF         Remote Support       Event notification (E-mail / SNMP / Syslog), Remote maintenance         Supported OS for ETERNUS SF Express       Vindows Server® 2012 R2 Datacenter         Windows Server® 2012 Datacenter       Windows Server® 2012 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Datacenter         Windows Server® 2008 R2 Datacenter       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Enterprise       Windows Server® 2008 Datacenter         Windows Server® 2008 R2 Interprise       Windows Vista® Home Premium         Windows Vista® Home Premium       Windows Vista® Business         Windows Server® 2008 Enterprise       Windows Server® 2008 Enterprise         Windows Server® 2012 Extandard       Windows Server® 2012 Standard<					
Remote Support     Event notification (E-mail / SNMP / Syslog), Remote maintenance       Supported OS for ETERNUS SF Express       Operation Management Server     Windows Server® 2012 R2 Standard Windows Server® 2012 Datacenter Windows Server® 2012 Datacenter Windows Server® 2008 R2 Datacenter Windows Server® 2008 R2 Datacenter Windows Server® 2008 R2 Standard Windows Server® 2008 Datacenter Windows Server® 2008 Datacenter Windows Server® 2008 Datacenter Windows Server® 2008 Extenprise       Operation Management Client     Windows 7 Home Premium Windows Vista® Business Windows Vista® Home Basic Windows Vista® Business Windows Vista® Enterprise Windows Vista® Enterprise       Owner Substa Business Windows Vista® Enterprise Windows Vista® Enterprise Windows Vista® Enterprise Windows Vista® Business Windows Vista® Enterprise Windows Vista® Enterprise Windows Vista® Enterprise Windows Sista® Enterprise Windows Vista® Enterprise Windows Sista® Enterprise Windows Sista® Enterprise Windows Sista® Enterprise Windows Sista® Enterprise Windows Sista® Enterprise Windows Sista® Enterprise Windows Server® 2008 Standard Windows Server® 2008 Enterprise Windows Server® 2012 Standard Windows Server® 2012 Istandard Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Standard Windows Server® 2012 R2 Standard       Supported configurations     All major host operating systems, servers and business applications					
Supported OS for ETERNUS SF Express         Operation Management Server       Windows Server® 2012 R2 Standard         Windows Server® 2012 R2 Standard       Windows Server® 2012 R2 Standard         Windows Server® 2012 R2 Standard       Windows Server® 2013 Raderenter         Windows Server® 2018 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 R2 Standard         Windows Server® 2008 R2 Standard       Windows Server® 2008 Enterprise         Operation Management Client       Windows 7 Professional         Windows Vista® Home Basic       Windows Vista® Home Basic         Windows Vista® Home Premium       Windows Vista® Business         Windows Server® 2008 Standard       Windows Server® 2008 Standard         Windows Server® 2008 Iterprise       Windows Server® 2008 Standard         Windows Server® 2008 Enterprise       Windows Server® 2008 Enterprise         Windows Server® 2008 Datacenter       Windows Server® 2008 Standard         Windows Server® 2008 Datacenter       Windows Server® 2008 Enterprise         Windows Server® 2012 Standard       Windows Server® 2012 Standard         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 R2 Standard         Windows Server® 2012 R2 Datacenter       Windows Server® 2012 R2 Datacenter         Windows Server® 2012 R2 Datacenter       Windows S					
Operation Management ServerWindows Server® 2012 R2 Standard Windows Server® 2012 Datacenter Windows Server® 2012 Datacenter Windows Server® 2018 R2 Standard Windows Server® 2008 R2 Datacenter Windows Server® 2008 R2 Enterprise Windows Server® 2008 Datacenter Windows 7 Home Premium Windows 7 Professional Windows 7 Professional Windows Vista® Home Premium Windows Vista® Home Premium Windows Vista® Business Windows Vista® Dusiness and Unit Data Composition Windows Vista® Datacenter Windows Vista® Datacenter Windows Vista® Datacenter Windows Server® 2008 Enterprise Windows Vista® Datacenter Windows Vista® Datacenter Windows Vista® Datacenter Windows Server® 2008 Enterprise Windows Server® 2008 Enterprise Windows Vista® Datacenter Windows Vista® Utimate Windows Server® 2008 Enterprise Windows Server® 2012 Standard Windows Server® 2012 R2 Standard <br< th=""><th></th><th></th></br<>					
Windows 7 UltimateWindows Vista® Home BasicWindows Vista® Home PremiumWindows Vista® BusinessWindows Vista® EnterpriseWindows Vista® UltimateWindows Vista® UltimateWindows XP Home EditionWindows Erver® 2008 StandardWindows Server® 2008 EnterpriseWindows Server® 2008 DatacenterWindows Server® 2012 DatacenterWindows Server® 2012 DatacenterWindows Server® 2012 R2 StandardWindows Server® 2012 R2 DatacenterWindows Server® 2012 R2 DatacenterWin	Operation Management Server	Windows Server® 2012 R2 StandardWindows Server® 2012 DatacenterWindows Server® 2012 StandardWindows Server® 2008 R2 DatacenterWindows Server® 2008 R2 EnterpriseWindows Server® 2008 R2 StandardWindows Server® 2008 R2 StandardWindows Server® 2008 DatacenterWindows Server® 2008 EnterpriseWindows Server® 2008 DatacenterWindows Server® 2008 EnterpriseWindows Server® 2008 EnterpriseWindows Server® 2008 EnterpriseWindows Server® 2008 Enterprise			
		Windows 7 UltimateWindows Vista® Home BasicWindows Vista® Home PremiumWindows Vista® BusinessWindows Vista® EnterpriseWindows Vista® UltimateWindows® XP Home EditionWindows® XP ProfessionalWindows Server® 2008 StandardWindows Server® 2008 EnterpriseWindows Server® 2012 StandardWindows Server® 2012 DatacenterWindows Server® 2012 R2 Standard			
www.fujitsu.com/global/support/products/computing/storage/disk/supported-configrations	Supported configurations	Detailed support matrix:			
Installation specification	Installation specification				
<b>19" rackmount</b> Yes	19" rackmount	Yes			

Installation specification							
Installation specification Service Area	Front: 850 mm (33 5	inch) or more					
שנו זונכ תוכט	1	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: 4,120	) W (4,230 VA)					
Maximum Power Consumption	AC 200 - 240 V: 4,120						
Power phase	Single						
	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 2 U	482 x 540 x 88 mm 19 x 21.3 x 3.5 inch 2 U	482 x 670 x 88 mm 19 x 26.4 x 3.5 inch 2 U	482 x 560 x 88 mm 19 x 22 x 3.5 inch 2 U	482 x 980 x 176 mm 19 x 38.6 x 6.9 inch 4 U		
Weight	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	35 kg (77 lb)	95 kg (209 lb)		
Maximum Power Consumption (AC 100 - 120 V)	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)		
Maximum Power Consumption (AC 200 - 240 V)	730 W (740 VA)	430 W (440 VA)	630 W (640 VA)	340 W (350 VA)	1,300 W (1,320 VA)		
Environment							
Maximum Heat Generation		AC 100 - 120 V: 15,600: kJ/h AC 200 - 240 V: 15,600: kJ/h					
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)						
Altitude	3,000 m (10,000 ft.)						
Sound pressure (LpAm)	46dB(A)						
Sound power (LWAd; 1B = 10dB)	6.7B						
Noise notes	-	enclosure according to		according to ISO 9296			
Operating environment		e for Data Center (instal	•				
Operating environment link	http://docs.ts.fujitsu.o	.com/dl.aspx?id=e4813ed	Jf-4a27-461a-8184-983	092c12dbe			
Туре	2.5-inch Controller Enclosure	2.5-inch Drive Enclosure	3.5-inch Controller Enclosure	3.5-inch Drive Enclosure	High-Density Drive Enclosure		
Compliance							
Product safety	UL 60950-1, CSA-C22	.2 No. 60950-1, EN 609	50-1, IEC 60950-1, GOST	-R			
Electromagnetic Compatibility	CNS 13438, FCC CFR 4	7 class A , ICES 003 Clas	s A, EN 55022 Class A, V	CCI Class A, AS/NZS CISP	R 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	approvals required in	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 Warranty	http://globalsp.ts.fuji	tsu.com/sites/certificate	5				
Warranty period	3 years						
Warranty type	Onsite warranty						
Warranty Terms & Conditions Product Support Services - the perfec	www.fujitsu.com/sup	port					
Support Pack Options	Globally available in 9x5, Next Business D 9x5, 4h Onsite Respo 24x7, 4h Onsite Resp	onse Time	2				
Recommended Service	24x7, Onsite Respons	se lime: 4h					

Warranty	
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 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

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/

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Software
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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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