

# Data Sheet

## Fujitsu ETERNUS JX60 Storage Subsystem

### High-capacity storage subsystem

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As capacity requirements often exceed the storage capacity that servers can offer, a passive extension of server storage is a good option. The Fujitsu Storage ETERNUS JX storage subsystems, which are directly attached to a server, support mixed disk drive configurations with easy handling and low investment costs. When extending storage capacity, they are the perfect choice for environments with only one server or with two servers for high availability in clustered configurations. ETERNUS JX systems offer basic data protection with built-in resilience and they can be managed using standard Fujitsu ServerView software.

#### **ETERNUS JX60 Storage Subsystem**

The Fujitsu Storage ETERNUS JX60 is a high-density, easy-to-use storage subsystem. As capacity requirements often exceed the storage capacity that servers can offer, a passive extension of server storage is a good option. The ETERNUS JX60 goes one step further. It offers maximum high capacity with low-cost 3.5 inch Nearline SAS hard disk drives and it needs a minimum of space to handle the constant increase in data volumes. It provides up to 960 Terabytes with a maximum of 4 enclosures which can be directly attached to a server.



# Features & Benefits

Main Features	Benefits
<b>Quality and reliability</b> <ul style="list-style-type: none"><li>■ Direct Attached Storage (DAS) for Intel-based servers with 6 Gbit/s SAS connection</li><li>■ Up to 240 high performance SAS and/or large capacity SATA disk drives enlarge storage capacity by up to 960 Terabyte</li></ul>	<ul style="list-style-type: none"><li>■ Reliable storage capacity for biggest data volume</li></ul>
<b>Innovation and flexibility</b> <ul style="list-style-type: none"><li>■ Components like hot plug disk drives and power supply modules can be replaced while the server is running</li><li>■ The redundant hot-plug power supply units can be connected with phase redundancy via separate power lines.</li><li>■ Optimum and secure cooling of the drives is ensured by two independent fans in each power supply unit</li><li>■ Standardized 3.5" PRIMERGY server disk drives are used and can be organized in different RAID levels</li></ul>	
<b>Ease of use</b> <ul style="list-style-type: none"><li>■ Status of the components is signaled by LED displays and light-emitting diodes</li><li>■ Drive extension is completely managed by the server and can be used in all usage scenarios with certified PRIMERGY servers</li><li>■ The subsystem can be integrated in the standard Fujitsu server management ServerView Suite</li></ul>	<ul style="list-style-type: none"><li>■ Continuous operation during flexible drive replacements</li><li>■ Mix and match of disk drives</li><li>■ Easy installation and control of the subsystem</li></ul>

# Technical details

## General system information

Max. no. of drives	240
Max. no. of drive enclosures	4
Redundancies	Power supply Fan
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6, 6+0
Host interfaces	1 MiniSAS-HD (SFF-8644) port on a standard SAS 3.0 I/O-module (expander)
Supported PRIMEGY server controller	LSI MegaRAID SAS9286CV-8e, PCIe3.0 x8, 1GB Cache with ECC
Max. storage capacity - physical	960 TB
Drive Type	3.5-inch, Nearline SAS, 7.200 rpm (4 TB/ 3TB /2 TB)
Drive interface	Serial Attached SCSI (6 Gbit/s)

## Dynamic configuration

Hot part replacement/ expansion	Yes
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## Management

Administration	Web-based graphical user interface
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## Supported configurations

**All major host operating systems, servers and business applications**  
 Detailed support matrix:  
<http://ts.fujitsu.com/products/storage/matrixEP.html>

## Installation specification

19" rackmount	Yes
Dimension (W x D x H) - standard	482 x 980 x 176
Height unit standard	4 U
Weight	95 kg (209 lb)
Service Area	Front: 800 mm (31.5 inch) or more Rear: 800 mm (31.5 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: 1300 W (1320 VA) AC 200 - 240 V: 1300 W (1320 VA)
Power phase	Single (phase redundancy possible)

## Environmental

Maximum Heat Generation	AC 100 - 120 V: 4750: kJ/h AC 200 - 240 V: 4750: kJ/h
Temperature (operating)	10 - 40 °C (50 - 104 °F)
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 power (LWAd; 1B = 10dB)	6.0 B
Sound pressure (LpAm)	43.5 dB(A)
Noise notes	measured according to ISO7779 and declared according to ISO9296
Operating environment	FTS 04230 - Guideline for Data Center (installation specification)
Operating environment Link	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a>

## Compliance

Product safety	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1
Electromagnetic Compatibility	CNS 13438, 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

**Compliance**

CE certification	2004/108/EC, 2006/95/EC, 2011/65/EC
Approvals	CB, CE, C-Tick, EAC, FCC, 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	<a href="http://globalsp.ts.fujitsu.com/sites/certificates">http://globalsp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

Standard Warranty	3 years
Service level	Onsite Service
Warranty Terms & Conditions	<a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a>

**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	<a href="http://www.fujitsu.com/services/product-services">www.fujitsu.com/services/product-services</a>

#### Fujitsu OPTIMIZATION Services

In addition to Fujitsu ETERNUS JX60 Storage Subsystem, 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/](http://www.fujitsu.com/global/services/computing/)

#### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

#### More information

Learn more about Fujitsu ETERNUS JX60 Storage Subsystem, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. [www.fujitsu.com/eternus](http://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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