

# Data Sheet

## FUJITSU Storage ETERNUS JX60 Subsystem

High-capacity storage subsystem



### ETERNUS JX Storage Subsystems

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

A passive subsystem extension is a cost-effective solution as capacity requirements often exceed the internal storage capacity of a server. However, data growth is outpacing the increase in disk capacity and thus more disks are needed requiring more rack space. This is why the Fujitsu Storage subsystem ETERNUS JX60 provides high disk capacity in a minimum space. Up to 60 low-cost 3.5 inch Nearline SAS hard disk drives can be hosted in an enclosure of only four rack height units. A total capacity of 480 Terabytes can be delivered by attaching up to 2 enclosures directly to a server with a small, space-saving footprint.



# 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 120 large capacity Nearline SAS disk drives enlarge storage capacity by up to 480 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 and in the fan expander module</li></ul>	<ul style="list-style-type: none"><li>■ Continuous operation during flexible drive replacements</li><li>■ Mix and match of disk drives</li></ul>
<b>Ease of use</b> <ul style="list-style-type: none"><li>■ Status of the components is signalized 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>■ Easy installation and control of the subsystem</li></ul>

# Technical details

## General system information

Maximum Disk Drives	120
Max. no. of drive enclosures	2
Supported RAID levels	0, 1, 1+0, 5, 5+0, 6, 6+0
Host Interfaces	SAS 3.0 I/O-module (expander)
Connector Type	1 Port MiniSAS HD (SFF-8644)
Supported PRIMERGY server controller	LSI MegaRAID SAS9286CV-8e SAS RAID 5/6 controller LSI SAS9200-8e 6Gb/s 8ext PCIe FH/LP SAS Controller Fujitsu PSAS CP400e SAS Controller
Maximum Storage Capacity	480 TB
Drive Type	3.5-inch, Nearline SAS, 7.200 rpm (4 TB/ 3 TB /2 TB)
Drive interface	Serial Attached SCSI (6 Gbit/s)

## 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/matrixep>

Hardware certification	Windows 2012R2 x64 Storage Spaces Enclosure
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## Installation specification

19" rackmount	Yes
Dimension - per rack (W x D x H)	482 x 980 x 176 mm 19 x 38.6 x 6.9 inch
Height Unit standard	4 U
Height Unit Maximum	8 U
Weight	max. 95 kg (209 lb) with hard disk drives
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)
Maximum Power Consumption	AC 200 - 240 V: 1300 W (1320 VA)
Power phase	Single (phase redundancy possible)

## Environment

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 pressure (LpAm)	43.5 dB(A)
Sound power (LWAd; 1B = 10dB)	6.0 B
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**

<b>Product safety</b>	UL 60950-1, CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1
<b>Electromagnetic Compatibility</b>	CNS 13438, FCC Part-15 Class A, ICES 003 Class A, EN 55022 Class A, VCCI Class A, AS/NZS CISPR 22 Class A
<b>Electromagnetic Immunity</b>	EN 55024
<b>CE certification</b>	2004/108/EC, 2006/95/EC, 2011/65/EC
<b>Approvals</b>	CB, CE, C-Tick, EAC, FCC, VCCI
<b>Environmental compliance</b>	RoHS compliant, WEEE compliant
<b>Compliance notes</b>	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.
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

**Warranty**

<b>Warranty period</b>	3 years
<b>Warranty type</b>	Onsite warranty
<b>Warranty Terms &amp; Conditions</b>	<a href="http://www.fujitsu.com/support">www.fujitsu.com/support</a>

**Product Related Services - the perfect extension**

<b>Support Pack Options</b>	X - Available in major business areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
<b>Recommended Service</b>	X - 24x7, Onsite Response Time: 4h
<b>Service Lifecycle</b>	5 years after end of product life
<b>Service Weblink</b>	<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, 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/](http://www.fujitsu.com/global/products/computing/)

#### Software

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

### More information

Learn more about Fujitsu ETERNUS JX60, 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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