

Data Sheet

FUJITSU Storage ETERNUS JX40 S2 Subsystem

Passive direct server-attached 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 JX40 S2

The Fujitsu Storage ETERNUS JX40 S2 is a reliable and highly performant easy-to-use storage subsystem. As Direct Attached Storage (DAS), it extends the storage capacity of Fujitsu PRIMERGY servers through a fastest 12 Gbit/s SAS connection by up to 192 Terabyte with the maximum of 4 enclosures.



Features & Benefits

Main Features	Benefits
<p>Performance and flexibility</p> <ul style="list-style-type: none"> ■ Direct Attached Storage (DAS) for Intel-based servers with 12 Gbit/s SAS connection ■ Up to 96 2.5" / 48 3.5" disk drives enlarge storage capacity by up to 173 TB / 192 TB <p>Quality and reliability</p> <ul style="list-style-type: none"> ■ Components like hot plug disk drives and power supply modules can be replaced while the server is running ■ The redundant hot-plug power supply units can be connected with phase redundancy via separate power lines. ■ Optimum and secure cooling of the drives is ensured by two independent fans in each power supply unit ■ Disk drives can be organized in different RAID levels <p>Ease of use</p> <ul style="list-style-type: none"> ■ Status of the components is signalized by LED displays and light-emitting diodes ■ Drive extension is completely managed by the server and can be used in all usage scenarios with certified PRIMERGY servers ■ The subsystem can be integrated in the standard Fujitsu server management ServerView Suite 	<ul style="list-style-type: none"> ■ Mix and match of different disk drive types - SAS / Nearline SAS and SSDs ■ Continuous operation during flexible drive replacements ■ Easy installation and control of the subsystem

Technical details

General system information

	2.5-inch Enclosure	3.5-inch Enclosure
Maximum Disk Drives	96 SAS disks and SSDs	48 Nearline SAS disks
Max. no. of drive enclosures	4	
Redundancy	Power supply Fan	
Host Interfaces	SAS 3.0 I/O-module (expander)	
Connector Type	1 Port MiniSAS HD (SFF-8644)	
Supported PRIMERGY server controller	Fujitsu PRAID EP420e Fujitsu PSAS CP400e SAS Controller LSI MegaRAID SAS9285CV-8e SAS RAID 5/6 controller LSI MegaRAID SAS9286CV-8e SAS RAID 5/6 controller LSI SAS9200-8e 6Gb/s 8ext PCIe FH/LP SAS Controller	
Maximum Storage Capacity	192 TB	
Drive Type	2.5-inch, SAS, 10,000 rpm (1.8 TB / 1.2 TB / 900 GB / 600 GB / 450 GB) 2.5-inch, SAS, 15,000 rpm (600 GB / 300 GB) 2.5-inch, SSD, MLC (1.6 TB / 800 GB / 400 GB) 3.5-inch, Nearline SAS, 7,200 rpm (4 TB / 3 TB / 2 TB)	
Max. no. of SSDs	4, up to 24 on special project release possible	
Drive interface	Serial Attached SCSI (12 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/matrixep>

Installation specification

19" rackmount	Yes	
Height Unit Maximum	8 U	
Weight	35 kg (depending on the number of installed disks)	
Service Area	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)	
	2.5-inch Enclosure	3.5-inch Enclosure
Maximum Power Consumption (AC 100 - 120 V)	430 W (440 VA)	340 W (350 VA)
Maximum Power Consumption (AC 200 - 240 V)	430 W (440 VA)	340 W (350 VA)

Environment

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

Environment

Noise notes	measured according to ISO7779 and declared according to ISO9296	
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	
Type	2.5-inch Enclosure	3.5-inch Enclosure
Maximum Heat Generation (AC 100 - 120 V)	1600 kJ/h	1300 kJ/h
Maximum Heat Generation (AC 200 - 240 V)	1600 kJ/h	1300 kJ/h

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	
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	http://globalsp.ts.fujitsu.com/sites/certificates	

Warranty

Warranty period	3 years
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support

Product 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 JX40 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/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS JX40 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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