Data Sheet
FUJITSU JX40 S2 Subsystem

High performance Direct Attached Storage (DAS) Subsystem

FUJITSU JX DAS Subsystem

Data centers today are evolving, adopting new technologies to meet the demands of digital transformation. This has contributed to an enormous increase in the amount of data created. As data grows, the storage requirements may exceed beyond the internal storage capacity of servers, affecting server performance. So the need to quickly and efficiently meet the growing server storage needs is more than ever.

Direct-attached storage (DAS) system provides a simple solution for storage expansion by directly attaching storage subsystems to the server via a host interface. FUJITSU JX DAS Subsystem offers a perfect DAS solution for PRIMERGY Servers that seamlessly extend server storage capacity in an easy and cost-effective way. FUJITSU JX DAS Subsystem provides fast time to value and are highly flexible with support for mixed storage device configurations. With support for fully redundant components and multiple RAID levels, it ensures a high level of availability and reliability.

JX40 S2

The FUJITSU JX40 S2 DAS Subsystem is a reliable and highly performant easy-to-use storage subsystem. It extends the storage capacity of FUJITSU PRIMERGY servers through a fastest 12 Gbit/s SAS connection. FUJITSU JX40 S2 subsystem provides high storage capacity with the flexibility to mix and match up to 24 x2.5" or 12 x3.5" SAS/ Nearline SAS HDDs or SSDs in a compact 2U enclosure. By cascading 4 enclosures, it can provide support up-to 96 x 2.5" or 48 x 3.5" disk drives with a maximum capacity of 737 TB (SSD with cascading). It is integrated with FUJITSU Software ServerView Suite for easy management and control. It is ideal for small and mid-range businesses looking for high performance, low footprint storage solutions. The most common workloads include storage virtualization, file servers, backup devices etc.

Green IT

Green Policy Innovation | Green Product
This product cleared our company's original evaluation standard which followed global environmental measures.

Windows Server 2012 R2 Certified

Features & Benefits

Main Features	Benefits
Performance and flexibility	
■ Direct Attached Storage (DAS) for PRIMERGY and other x86-based servers with 12 Gbit/s SAS connection	■ Faster data transfer rate with 12 Gbit/s SAS connection
■ Up to 96x 2.5" / 48x 3.5" disk drives with a maximum storage capacity of 192 TB/576 TB (cascading)	■ Flexibility to mix and match different disk drive types - SAS / Nearline SAS HDDs and SSDs
■ Expand storage capacity by up to 737 TB (SSD with cascading)	■ Scale as your storage demands grow
Quality and reliability	
■ Components like hot-plug devices and power supply modules can be replaced while the server is running	■ Hot-swap devices and hot-swap/redundant power supplies provide maximum uptime
■ The redundant hot-plug power supply units can be connected with phase redundancy via separate power lines	■ Continuous operation during flexible drive replacements
■ Optimum and secure cooling of the devices is ensured by two independent fans in each power supply unit	
■ Disk drives can be organized in different RAID levels	
Ease of use	
■ Flexible and modular components enable easy deployment and management	■ Seamless integration with PRIMERGY Servers for storage expansion
■ Status of the components is signalized by LED displays and light-emitting diodes	■ Easy installation and control of the subsystem
■ Disk drive extension is completely managed by the server and can be used in all usage scenarios with certified PRIMERGY servers	
■ Integrated with standard FUJITSU server management ServerView Suite	

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	
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	737 TB (by cascading 4 enclosures) TB	
Drive Type	2.5-inch, SAS, 10.000rpm (1.8TB / 1.2TB / 900GB / 600GB) 2.5-inch, SAS, 15.000rpm (600GB / 900GB) 2.5-inch, Nearline SAS, 7.200rpm (2TB / 1TB) 2.5-inch, SSD, MLC, 10DWPD (1.6TB / 800GB / 400GB) 2.5-inch, SSD, MLC, 3DWPD (3.2TB / 1.6TB / 800GB / 400GB) 2.5-inch, SSD, MLC, 1DWPD (7.68TB / 3.84TB / 960GB / 480GB) 3.5-inch, Nearline SAS 12G, 7.200rpm, (12TB / 10TB / 8TB / 6TB / 4TB / 2TB)	
Drive interface	Serial Attached SCSI (12 Gbit/s)	

Management

Administration	Web-based graphical user interface

Supported configurations

All major host operating systems, servers and business applications
Detailed support matrix:
http://ts.fujitsu.com/matrixep

Installation specification

19" rackmount	Yes	
Dimension - per rack (W x D x H)	483 x 650 x 88 mm 19 x 25.6 x 3.5 inch	
Height Unit standard	2 U	
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 (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	https://sp.ts.fujitsu.com/sites/certificates	
Warranty		
Warranty period	3 years	
Warranty type	Onsite warranty	
Warranty Terms & Conditions	www.fujitsu.com/support	
Product Related Services - the perfect extension		
Support Pack Options	- 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)	
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 products, solutions & services

In addition to FUJITSU 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
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/

Software
www.fujitsu.com/software/

More information

Learn more about FUJITSU JX40 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

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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