Fsas Technologies
a Fujitsu company

Data Sheet
JX60 S2 DAS Subsystem

High-capacity Direct Attached Storage (DAS) subsystem

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 peformance. So the need to quickly and efficiently meet the growing server storage needs is more than ever.

Direct-attached storage (DAS) system offers a simple solution for storage expansion by directly attaching storage subsystems to the server via a host interface. The JX DAS Subsystem offers a perfect DAS solution for PRIMERGY Servers that seamlessly extend server storage capacity in an easy and cost-effective way. 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 high level of availability and reliability.

JX60 S2 DAS Subsystem

It can support up to 60 x 3.5 inch disk drives, delivering a capacity of up to 720 Terabytes

Features & Benefits

Main Features	Benefits
Scalable capacity ■ Direct Attached Storage (DAS) for PRIMERGY and other x86 industry-standard servers with 12 Gbit/s SAS connection	■ Reliable storage capacity for biggest data volume; Flexible configuration options: capacity optimized or speed-optimized
Quality and reliability ■ Quality and reliability features	■ Hot-swap devices and hot-swap/redundant power supplies provide maximum uptime; Continuous operation during flexible disk drive replacements
Flexible and modular ■ Flexible and modular components	■ Flexible and modular components enable easy deployment and management; Seamless integration with PRIMERGY Servers for storage expansion; Easy installation and control of the subsystem
Simplified management ■ Simplified management features	■ Status of the components is signalized by LED displays and light-emitting diodes; 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

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	Fujitsu PRAID EP680e Fujitsu PRAID EP540e Fujitsu PRAID EP420e Fujitsu PSAS CP500e Fujitsu PSAS CP400e SAS Controller
Drive Type	3.5-inch, SAS, 15,000 rpm (900GB / 600GB / 300GB) 3.5-inch, SAS, 10,000 rpm (2.4TB / 1.8TB / 1.2TB / 600GB) 3.5-inch, SSD, 10DWPD (1.6TB / 800GB / 400GB) 3.5-inch, SSD, 3DWPD (3.2TB / 1.6TB / 800GB) 3.5-inch, SSD, 1DWPD (7.68TB / 3.84TB / 1.92TB / 960GB) 3.5-inch, Nearline SAS, 7,200 rpm (16TB / 14TB / 12TB / 8TB / 6TB / 4TB / 2TB)
Drive interface	Serial Attached SCSI (12 Gbit/s)

Continuity management

Note	The product may in connection with and depending on the specific configuration include elements to support time- and performance-critical applications, however high availability (e.g., 99.9999%) and failsafe performance is not a standalone product feature. If and to the extent the product is to be used in such business-critical environments, it is within the sole responsibility of the user to set up the specific additional technical features (e.g., Storage Cluster), redundancies, and operational conditions as required to ensure such high availability or failsafe performance.

Management

Administration	Web-based graphical user interface

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. 100 kg (depending on the number of installed disks)
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% (80PLUS® 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)
Notes	Efficiency and Power Factor for Power Supply Unit (JX60 S2 for 3.5inch) 80PLUS®Efficiency Power factor Output 20% (*1) 50% (*1) 100% (*1) 50% (*1) GOLD (*2) 90.1% 92.4% 90.3% 0.975 Multiple output *1: Rated load against the rated output of the PSU. *2: 80PLUS® GOLD certified power supply units are used. 80PLUS® is a power saving program for electrical equipment promoted by the 80PLUS® program.

Environment

Maximum Heat Generation	AC 100 - 120 V: 4700: kJ/h
	AC 200 - 240 V: 4700: kJ/h
Temperature (not operating)	0 - 50 ℃
Temperature (operating)	10 - 40 ℃ (50 - 104 °F)
Humidity (operating)	20 - 80 % (relative humidity, non-condensing)
Humidity (not operating)	8 - 80 % (relative humidity, non-condensing)

Environment

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	https://sp.ts.fujitsu.com/dmsp/Publications/public/FTS-04230-Specification-for-DataCenter.pdf

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/EMC 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

Manufacturer warranty period	1 year
Warranty type	Onsite warranty
Warranty Terms & Conditions	www.fujitsu.com/support

Product Support - the perfect extension

Support Pack Options	Available in major metropolitan 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	at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
Service Weblink	www.fujitsu.com/services/product-services

Fujitsu OPTIMIZATION Services

In addition to JX60 S2 DAS Subsystem, a range of platform solutions is provided. They combine reliable 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
https://www.fsastech.com/en-eu/

Software
www.fujitsu.com/software/

More information

Learn more about JX60 S2 DAS Subsystem, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
www.fujitsu.com/products

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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