FUJITSU

Data Sheet
FUJITSU Server PRIMERGY SX940 S1 Storage Blade Disk

For easy and cost effective server consolidation

FUJITSU Server PRIMERGY systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable PRIMERGY tower servers for remote and branch offices, versatile rack-mount servers, compact and scalable blade systems, as well as density-optimized scale-out servers. They convince by business proven quality with a wide range of innovations, highest efficiency cutting operational cost and complexity, and provide more agility in daily operations in order to turn IT faster into a business advantage.

Fujitsu Server PRIMERGY BX blade systems are the perfect platform to build a converged infrastructure designed to reduce IT costs, time and efforts. PRIMERGY Blade Servers utilizes a modular architecture and contain in addition to the compute power, all required infrastructure and network components, storage capacity as well as management modules that helps companies to simplify their infrastructure, achieve significant cost reductions and increase flexibility.

PRIMERGY SX940 S1
The PRIMERGY SX940 S1 Direct Attached Storage Blade Disk can be used to extend the internal storage capacity of PRIMERGY BX9xx Server Blades. A maximum of four internal disk drives greatly extends the maximum amount of disk storage of a Server Blade. One Storage Blade occupies one blade slot within the PRIMERGY BX400 or BX900 system unit; in BX400 it is positioned right from an adjacent server blade, while in BX900 it is positioned either left or right of it, or between two server blades. The 1x 4 or 2x 2 respectively disk drives of one SX940 S1 are driven by 1 or 2

integrated, highly functional SAS/RAID controllers with optional 512 Mbyte cache and BBU. Each controller provides RAID levels 0, 1, 5 and 6.
The connection to each Server Blade is realized via a midplane link to the high performing PCIe x4 interfaces of each Server Blade's system board.

Features & Benefits

Main Features	Benefits
Operational diversity	
■ PRIMERGY SX940 S1 provides up to 4 additional disk drives for one or two Server Blades; up to four Storage Blades Disk usable in BX400 and up to six Storage Blades Disk usable per BX900 system unit	■ Variability through the optional choice of either connecting 2x up to 2 drives to two different, adjacent Server Blades (BX900 only), or to connect up to 4 disk drives to one adjacent Server Blade
Fast interconnect	
■ Midplane connection via PCIe x4 interface	■ Avoidance of additional cabling due to the direct connection to Server Blade(s) via the high performance midplane, no need for additional disk controller slots in Server Blade(s)
High capacity and transfer rates	
■ SAS (2.0) enterprise class or SATA business critical drives	■ High capacity of up to 2.4 TB with high quality SAS drives, up to 2 TB with SATA HDDs
Enhanced speed plus secure data transmission	
■ High performance RAID controller (1x or 2x) within the Storage Blade, providing RAID levels 0, 1, 5 and 6, optionally accelerated by 512 MB cache module and secured by iBBU	■ The write-back cache comprehensively enhances the speed of write operations and in the event of power failures, the integrated Battery Backup Unit guarantees data integrity

Technical details

Enclosure	
Housing types	Blade
Product Type	Storage Blade Disk
Max. number per BX400	4
Max. number per BX900	6
Type	Storage extension unit for BX920 S1/S2, BX922 S2, BX924 S2 and BX960 S1 Server Blade
Number of hard disk drives	1 - 4
Storage architecture	Direct Attached Storage (DAS)
Status LEDs	Power (green)

Hard disk drives	
	HDD SATA, 6 Gb/s, 500 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 250 GB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, hot-plug, 2.5-inch, business critical
	HDD SAS, 6 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise

RAID Controller	
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.
	RAID level: 0, 1, 10, No BBU support

Dimensions / Weight	
Dimensions (W x D x H)	45 x 500 x 210 mm
Weight	3.95 kg
Weight notes	Actual weight may vary depending on configuration

Environmental	
Temperature note	In accordance with the corresponding PRIMERGY BX400 and BX900 system unit
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

Compliance	
Germany	GS
Europe	CE Class A *
Global	CB
	RoHS (Substance limitations in accordance with global RoHS regulations)
	WEEE (Waste electrical and electronical equipment)
Compliance notes	In combination with corresponding PRIMERGY BX system unit
	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.
	* Warning:
	This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY SX940 S1, 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 PRIMERGY SX940 S1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts

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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