FUJITSU

Data Sheet
Fujitsu PRIMERGY SX980 S1 Storage Blade Disk

Easy transition from direct attached to centralized storage for PRIMERGY BX Blade Servers

PRIMERGY SX storage blades are installed together with PRIMERGY server blades in the PRIMERGY BX chassis. The introduction of storage blades is a simple and low-priced way to consolidate servers. Above all, small and medium-sized companies usually have rack and tower servers which offer a high degree of capcity regarding local hard disks. The use of storage blades equipped with tape drives is a simple and quick method to backup system data locally. Having local access to large amounts of data is often necessary, for example, in the world of computer-aided engineering (CAE), where smaller local workgroups have to access and create very large models. Examples for using storage blades are operation within limited environments as a file server or for Microsoft® SharePoint portals.

PRIMERGY SX980 S1

The Fujitsu PRIMERGY SX980 Storage Blade Disk is a SAS 2.0 storage solution that helps customers easily transition from direct attached to centralized storage. This storage blade is connected via midplane to a SAS Connection Blade (CB), holds up to 10 hot-plug SAS hard disks or SAS SSDs, and may be made accessible by any PRIMERGY BX Server Blade installed in the same enclosure. With currently available HDDs, the internal storage capacity may be extended to up to 27 TB (3x SX980) in PRIMERGY BX400 systems, and to up to 54 TB (6x SX980) in the PRIMERGY BX900 chassis. The storage blade can be inserted, like a server blade, in the front of the blade server housing. It is hot-pluggable and shares the power and cooling infrastructure.

Features and Benefits

Main Features	Benefits
Affordable storage consolidation ■ PRIMERGY SX980 S1 supports up to 10 hot-plug SAS 2.0 hard disks in a half-height and double-wide form factor.	■ Consolidated storage technology to meet the requirements of smaller and midmarket customers, including branch offices. ■ The PRIMERGY SX980 S1 allows customers to extend storage capacity to up to 27 TB in PRIMERGY BX400 systems and to up to 54 TB in the PRIMERGY BX900 Blade Servers.
Centralized storage ■ SAS RAID mezzanine card in the accessing server blades for RAID protection with optional BBU.	■ The perfect solution for smaller and midsized businesses as pure disk extension or for use with Windows Storage Server.
Fast interconnect ■ Connection between server blades and SX980 S1 via midplane, using SAS Connection Blade.	■ The storage blade plugs directly into the PRIMERGY BX Blade Server enclosure with no additional cabling needed.

Technical details

Enclosure	
Housing types	Blade
Product Type	Storage Blade Disk
Max. number per BX400	3, Due to EMI restrictions, for the US market only 2x SX980 S1 can be installed in BX400
Max. number per BX900	6, Due to EMI restrictions, for the US market only 2x SX980 S1 can be installed in BX900
Type	Storage extension unit for BX92x and BX96x Server Blades
Number of hard disk drives	1 - 10
Storage architecture	Shared Storage via SAS CB
Status LEDs	Power (green) Identification (blue)

DVI	
Status LEDs	Power (green) Identification (blue)

Storage disks	
	SSD SAS, 6 Gb/s, 400 GB, SLC, hot-plug, 2.5-inch, enterprise
	SSD SAS, 6 Gb/s, 200 GB, SLC, hot-plug, 2.5-inch, enterprise
	SSD SAS, 6 Gb/s, 100 GB, SLC, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
	HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise

Dimensions / Weight	
Dimensions (W x D x H)	90 x 508 x 204 (chassis height 210,5) mm
Weight	max. 8 kg (fully equipped)
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 locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473

Power supply configuration	
Active power (min. configuration)	70 W
Active power (max. configuration)	110 W
Heat emission	396.0 kJ/h (375.3 BTU/h)

Compliance	
Germany	GS
Europe	CE Class A *
USA/Canada	CSA us CSA c
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
Taiwan	BSMI

Compliance

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://sp.ts.fujitsu.com/sites/certificates/

Compliance notes   In combination with corresponding PRIMERGY BX system unit

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY SX980 S1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY SX980 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 resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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