

### **Data Sheet**

# Fujitsu PRAID EP400i / EP420i

RAID Controller SAS 12Gbit/s 1GB or 2GB cache based on LSI MegaRAID® for internal storage devices

The RAID architecture (Redundant Array of Independent Disks) combines multiple storage devices, including hard drives and NVMe devices, into a single logical unit. Redundancy data is generated from data segments (barring RAID 0) and distributed across the devices. Consequently, operating systems interact with this collective array rather than the individual devices. The core purpose of RAID is to enhance data availability, reducing potential disruptions from storage devices failures. The effectiveness of a RAID setup largely depends on the RAID controller in use.

Choose Fujitsu RAID controllers for a blend of modern technology and proven experience, providing the data protection that businesses need today.

#### PRAID EP400i / EP420i

The Fujitsu RAID ControllerPRAID EP400i with 8 ports sets new speed and data security standards for internal storage drives. The RAID stack is based on the LSI MegaRAID® and offers high data throughput, a comprehensive fault tolerance function and user-friendly management options. Moreover, the Controller management is integrated seamlessly into the Fujitsu server management concept. All controller functions are supported by the Fujitsu ServerView RAID Manager. The PRAID EP400i is designed for backward compatibility with 3Gbit/s SAS as well as with 6Gbit/s and 3Gbit/s SATA hard drives. Regardless of the drive speed, it

delivers significant performance improvements in both read and write applications. Due to the support of 64-bit addressing, a robust set of RAID features and demanding error tolerance functions the controller provides high RAID performance and data availability. Powerful online management service programs (Fujitsu ServerView RAID Manager), which are simple to operate and quick to install, provide the administrator with unparalleled flexibility and access to the arrays. The RAID controller supports all of the important RAID levels including RAID 6 and 60. The optional flash battery backup (FBU) combined with TFM module ensures the integrity of the data stored in the cache on the RAID controller in case of a power outage. In this event, the data will be copied to a non-volatile flash memory (TFM). The FBU provides a low-priced alternative to an uninterruptible power supply (UPS) and, when compared to battery backup up units (BBU), enables a long-term, secure store of data and better serviceability. Always select FBU and TFM module in combination.

The Advanced Software Options in combination with Solid State Disks in front of HDD volumes can create high-capacity,high-performance controller cache pools, depending on the load profile. A free of charge test version is available at PRIMERGY-PM. Link: http://docs.ts.fujitsu.com/dl.aspx?id=c816a64f-8b6d-47df-ba31-836874f08c07



#### Main Features

Number of supported drives

- 12Gbit/s SAS ports PCI Express® 3.0 x8 RAID levels
- LSISAS3108 12Gbit/s RAID-on-Chip

Scalable performance

- 1GB / 2GB 1333MHz DDRIII cache memory Simplified management
- Optional Flash Backup Unit (FBU); Optional SafeStore for PRAID EP420i for HDD encryption
- User Management Options
- RAID Advanced Software Options LSI CacheCade®. Fast Path is supported free of charge by controller firmware.

#### Benefits

- Connect up to 240 HDDs and SSDs
- RAID levels 0, 1, 5 and 6 for more data security
- 1GB / 2GB 1333MHz DDRIII cache memory
- Ensures the integrity in case of power outage, long-term, secure store of data and better serviceability compared to BBU; Safe data encryption and data safety for harddisks in case of removal
- Seamless merging of the RAID management into system management
- Create high performance controller cache pools.

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## Technical details

S26361-F5243-L4

PRAID EP420i for SafeStore

Controller Silicon	RoC (RAID o	on Chip) LSI SAS3108			
		RAID 5/6 Ctrl.			
Operating system pre-inst	alled Information	Information to released operating systems can be found in the server datasheets. Details can be found in the released drivers list on the support portal.			
Released drivers list link		http://support.ts.fujitsu.com/Download/Index.asp			
Number of ports		8 ports int.			
Connector internal	-	2x SFF8643 (Mini-SAS HD)			
Data transfer rate up to	12 Gbit/s				
Bus type	PCle 3.0				
Bus width	x8	x8			
RAID Management	StorCLI (con	ServerView RAID Manager StorCLI (command-line interface) BIOS Configuration Utility			
DAID lavel	- Maximum - Online Cap - Online RAI - Auto resur - Fast initiali - Single con - Load Balar - Configural - Fast initiali - Check con - Patrol reac - Up to 64 lc - S.M.A.R.T s - Global anc - Automat - Enclosure - SES (inba	ole stripe size up to 1MB sation for quick array setup sistency for background data integrit I for media scanning and repairing ogical drives per controller upport I dedicated Hot Spare with Revertible ic rebuild e affinity management ind) utband)	y - Make Data Consistent (MDC)		
RAID level	0, 1, 10, 5, 5				
RAID cache backup unit RAID controller notes	Optional FB based on LS				
Interface technology	SAS/SATA	001 CCUC II			
Order code	Product Name	Height of bracket	RAID controller cache size	Number of Connectors	
S26361-F5243-E11	PRAID EP400i	Matching to system	1 GB	2	
S26361-F5243-E11	PRAID EP400i	Matching to system  Matching to system	2 GB	2	
	PRAID EP420i for SafeStor	<u> </u>	2 GB	2	
\$26361_F\$243_F14	ו וואוט בו דצטו וטו סמופטנטו	c matering to system			
\$26361-F5243-E14 \$26361-F5243-L11	PRAID EDANNI	Full Height / Low Profile	I (aK	2	
S26361-F5243-L11	PRAID EP400i	Full Height / Low Profile	1 GB	2	
S26361-F5243-L11 S26361-F5243-L12	PRAID EP420i	Full Height / Low Profile	2 GB	2	
S26361-F5243-L11 S26361-F5243-L12 S26361-F5243-L14	PRAID EP420i PRAID EP420i for SafeStor	Full Height / Low Profile re Full Height / Low Profile	2 GB 2 GB	2	
S26361-F5243-L11 S26361-F5243-L12	PRAID EP420i	Full Height / Low Profile	2 GB	2	

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2 GB

2

Full Height / Low Profile

Order code	Product Name	Notes	
S26361-F5243-E100	PRAID EP400i TFM	installed - Transportable Flash Module - contains flash memory and control logic for Flash Backup Unit (FBU) – required for FBU option	
S26361-F5243-E200	TFM PRAID EP420i/e	installed - Transportable Flash Module - contains flash memory and control logic for Flash Backup Unit (FBU) – required for FBU option	
S26361-F5243-E125	RAID Ctrl FBU option for PRAID EP4xx with 25cm cable	installed - Super-capacitor incl. cable	
S26361-F5243-L110	RAID Ctrl FBU option for PRAID EP4xx with 25cm, 55cm, 70cm cable	installed - Super-capacitor incl. cable	
Compliance			
Compliance notes	According to the corresponding system		
Compliance link	nce link https://sp.ts.fujitsu.com/sites/certificates		

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### More information

#### Fujitsu products, solutions & services

In addition to Fujitsu with PRAID EP400i / EP420i, 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 PRAID EP400i / EP420i, 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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#### Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

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