

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 concept (Redundant Array of Independent Disks) refers to several independent hard disks which form a large logical drive when switched together.

Redundancy information is calculated from several data blocks (except for RAID 0) and saved distributed to the individual hard disks. Your operating system no longer accesses the individual hard disks, but the array.

The actual objective of the RAID concept is to increase availability and prevent downtimes in the event of a hard disk failure. However, the theoretical security of the RAID concept is only as good as the RAID controller used. Benefit from the Fujitsu RAID controllers where technology, experience and practical implementation all ensure the security that your company needs in the event of an emergency.

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.



Main Features

- 12Gbit/s SAS ports PCI Express® 3.0 x8
- LSISAS3108 12Gbit/s RAID-on-Chip
- 1GB / 2GB 1333MHz DDRIII cache memory
- Optional Flash Backup Unit (FBU)
- User Management Options

Benefits

- Connect up to 240 HDDs and SSDs
- RAID levels 0, 1, 5 and 6 for more data security
- RAID spans 10, 50 and 60 for more data security
- Ensures the integrity in case of power outage
- Long-term, secure store of data and better serviceability compared to BBU
- Seamless merging of the RAID management into system management

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Technical details

Controller Silicon		RoC (RAID o	n Chip) LSI SAS3108				
Controller type		RAID 5/6 Ctr	l.				
Operating system			to released operating syste vers list on the support port		ound in the serv	ver datasheets. Details car	n be found in the
Released drivers list lir	nk		ort.ts.fujitsu.com/Download				
Number of ports		8 ports int.	,	I			
Connector internal			(Mini-SAS HD)				
Data transfer rate up to	0	12 Gbit/s	· /				
Bus type	_	PCIe 3.0					
Bus width		х8					
RAID Management		ServerView RAID Manager StorCLI (command-line interface) BIOS Configuration Utility					
		- Online RAI - Auto resun - Fast initial - Single con - Load Balar - Configurat - Fast initial - Check cons - Patrol read	acity Expansion (OCE) D level Migration (RLM) ne after loss of system power ization for quick array setup troller multipathing (failove ncing ole stripe size up to 1MB isation for quick array setup istency for background data I for media scanning and re	er) a integrity - N			
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Product Name (FTS)	Notes
PRAID EP420i TFM	installed - Transportable Flash Module - contains flash memory and control logic for Flash Backup Unit (FBU) – required for FBU option
RAID Ctrl FBU option with 25cm, 55cm, 75cm cable	installed - Super-capacitor incl. cable
According to the corresponding system	
http://globalsp.ts.fujitsu.com/sites/certificates	
	PRAID EP420i TFM RAID Ctrl FBU option with 25cm, 55cm, 75cm cable According to the corresponding system

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More information

Fujitsu OPTIMIZATION 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/services/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/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/qlobal/about/environment



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