

# Data Sheet Fujitsu PRAID EP420e

RAID Controller SAS/SATA 12Gbit/s 2GB cache based on LSI MegaRAID® for external 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 EP420e

The Fujitsu RAID ControllerPRAID EP420e with 8 external SAS and SATA ports sets new speed and data security standards for external storage. It includes the latest PCI Express 3.0 and 12 Gb/s SAS 3.0 technology and is designed for configuring external storage enclosures with high-performance SAS hard disk drives (HDDs), high-capacity SATA HDDs or application-accelerating solid state drives (SSDs). 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 EP420e offering up to double the data transfer rate of 6 Gb/s SAS solutions, 12 Gb/s SAS allows the SAS infrastructure to deliver bandwidth that can fully utilize that of PCI Express 3.0 with a single controller card. The EP420e delivers two 1.2 GHz Power PC processor cores and 72-bit DDRIII interface that drives 2 GB cache memory. Regardless of the drive speed, it delivers significant performance improvements in both read and write applications. 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 0, 1, 5, 6, 10, 50 and 60. 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	Benefits
Number of supported drives	
■ ETERNUS JX40 Support	Supports up to 4 ETERNUS JX40 (up to 96 hard disks)
RAID levels	
RAID levels	RAID spans 10, 50 and 60 for more data security
Scalable performance	
■ 2GB cache	2GB 1333MHz DDRIII cache memory
Simplified management	
User-friendly management options	<ul><li>Seamless merging of the RAID management into system management</li></ul>

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## Technical details

Technical details						
Controller Silicon	RoC (RAID on	RoC (RAID on Chip) LSI SAS3108				
Adapter Type	RAID 5/6 Ctrl.	RAID 5/6 Ctrl.				
Released drivers list link	http://suppor	t.ts.fujitsu.com/Download/Index.asp				
Number of ports	8 ports ext.					
Connector external	2x SFF8644 (N	Mini-SAS HD)				
Data transfer rate up to	12 Gbit/s					
Bus type	PCle 3.0					
Bus width	x8					
RAID Management	ServerView R/ StoreCLI (com Crtl + R	AID Manager nmand-line interface)				
	- Online RAID - Auto resume - Single contro - Load Balanci - Configurable - Fast initialisa - Check consis - SSD support - Patrol read fo - Up to 64 log - DDF-complia - S.M.A.R.T sup - Global and co - Automatico - Enclosure ao - SES (inbano	city Expansion (OCE) level Migration (RLM) e after loss of system power during an oller multipathing (failover) ing e stripe size up to 1MB ation for quick array setup stency for background data integrity t with SSD Guard™ technology for media scanning and repairing dical drive support ant configuration on disk (COD) pport dedicated Hot Spare with Revertible Horebuild affinity lanagement d)				
RAID level	0, 1, 10, 5, 50,					
RAID cache backup unit	Optional FBU					
RAID controller notes	based on LSI S					
Interface technology	SAS/SATA	· ·· · · · · · · · · · · · · · · · · ·				
Order code	Product Name	Height of bracket	RAID controller cache size	Number of Connectors		
S26361-F3847-L502	PRAID EP420e FH/LP	Full Height / Low Profile	2 GB	2		
Options Order code	Product Name		Notes			
S26361-F5243-E125	RAID Ctrl FBU option for Pi	RAID EP4xx with 25cm cable	installed - Super-capacitor incl. cable			
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-L110	RAID Ctrl FBU option for Pl cable	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 notes	ACCORDING TO	the corresponding system				

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### More information

#### Fujitsu products, solutions & services

In addition to Fujitsu with PRAID EP420e, 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 EP420e, 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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