Data Sheet
LSI MegaRAID SAS9285CV-8e SAS RAID 5/6 controller

LSI MegaRAID® SAS9285CV-8e for external 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.

MegaRAID SAS9285CV-8e SAS RAID 5/6 controller

The MegaRAID® SAS9285CV-8e SAS RAID 5/6 controller is released in the current PRIMERGY server for connection of the ETERNUS JX40. The RAID stack is based on the LSI MegaRAID® and offers a high data throughput performance, a comprehensive error tolerance function and user-friendly management options. Management of the controller is integrated seamlessly into the Fujitsu Management concept. All controller functions are supported by the Fujitsu ServerView RAID Manager. The newest designs are based on architectures that support both SATA and SAS hard drives. The

MegaRAID® SAS 9285-8e, with 8 external SAS/SATA ports, is the ideal solution for configuring external enclosures with either high-performance SAS drives or high-capacity SATA drives. The MegaRAID® SAS9285CV-8e SAS RAID 5/6 controller features an LSISAS2208 storage processor, the fastest DDRIII memory today, and an x8 PCI-Express host interface to provide the ultimate performance for external applications. The RAID controller supports all of the important RAID levels including RAID 6 and 60. The RAID controller offers maximum I/O performance and the highest data throughput, because it profits from stable and tried-and-tested RAID firmware on the basis of LSI MegaRAID®. The optional flash battery backup (FBU) 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. 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.

Main Features	Benefits
■ ETERNUS, FibreCAT Support	■ Supports up to 6 ETERNUS JX40 (up to 144 hard disks)
■ High-performance cache; RAID 6 Support	■ Significant increase in performance due to a 1 GB controller cache. Meets highest security requirements without any data loss in case 2 disks per array fail
■ User-friendly management options	■ Seamless integration of RAID management into the FTS management concept
■ Optional Flash Backup Unit (FBU)	■ Ensures the integrity in case of power outage
	■ Long-term, secure store of data and better serviceability compared to BBU
■ System integrators can use the controller in a standard housing design, which can be equipped with SAS hard disks	■ Reduction in total cost of ownership and maximization of the overall investment

Technical details

Technical details

Controller Silicon	RoC (RAID on Chip) LSI SAS2208
Controller type	RAID 5/6 Ctrl.
Certified or supported operating systems and virtualization software	Microsoft® Windows Server® 2012 Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2008 R2 Red Hat Enterprise Linux Novell SUSE Linux Enterprise Server
Number of ports	8 ports ext.
Connector external	2x SSF-8088 (mini SAS)
Number of external ports	8
Data transfer rate up to	6 Gbit/s
Bus type	PCIe 2.0
Bus width	x8
RAID Management	ServerView RAID Manager MegaCLI (command-line interface) WebBIOS

Key RAID Data Protection Feature	- RAID levels 0, 1, 5 and 6
	- RAID spans 10, 50 and 60
	- Online Capacity Expansion (OCE)
	- Online RAID level Migration (RLM)
	- Auto resume after loss of system power during array rebuild or reconstruction (RLM)
	- Fast initialization for quick array setup
	- Single controller multipathing (failover)
	- Load Balancing
	- Configurable stripe size up to 1MB
	- Fast initialisation for quick array setuo
	- Check consistency for background data integrity - Make Data Consistent (MDC)
	- Patrol read for media scanning and repairing
	- Up to 64 logical drives per controller
	- Up to 64TB LUN support DDF-compliant
	- S.M.A.R.T support
	- Global and dedicated Hot Spare with Revertible Hot Spare support
	  - Automatic rebuild
	  - Enclosure affinity
	- Enclosure management
	  - SES (inband)
	  - SGPIO (outband)

RAID level	0, 1, 10, 5, 50, 6, 60
RAID controller cache size	1 GB
RAID cache backup unit	Optional FBU
RAID controller notes	(based on LSI SAS2208)
Interface technology	SAS/SATA

Order code	Product Name (FTS)	Height of bracket	Number of Connectors	Notes
S26361-F3713-E1	RAID Ctrl SAS 6G 8Port ex 1GB LSI	Full Height (FH)	2	installed
S26361-F3713-E201	RAID Ctrl SAS 6G 8Port ex 1GB LSI	Low Profile (LP)	2	installed
S26361-F3713-L501	RAID Ctrl SAS 6G 8Port ex 1GB LSI	Full Height / Low Profile	2	loose delivery

Options

Order code	Product Name (FTS)	Notes
S26361-F3669-E125	RAID Ctrl FBU option with 25cm cable	installed - Super-capacitor incl. cable

Options

Order code	Product Name (FTS)	Notes
S26361-F3669-E155	RAID Ctrl FBU option with 55cm cable	installed - Super-capacitor incl. cable
S26361-F3669-E170	RAID Ctrl FBU option with 70cm cable	installed - Super-capacitor incl. cable
S26361-F3669-L110	FBU option with 25/55/70 cm cable	loose delivery - Super-capacitor incl. cables for all systems

Compliance

Compliance notes	According to the corresponding system
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu MegaRAID SAS9285CV-8e SAS RAID 5/6 controller, 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 MegaRAID SAS9285CV-8e SAS RAID 5/6 controller, 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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