

Data Sheet

PRAID EP520i

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

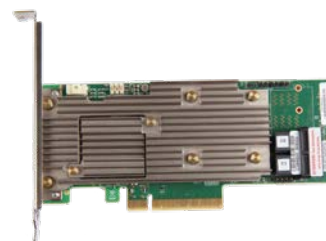
The RAID architecture (Redundant Array of Independent Disks) combines multiple storage devices, including hard drives and NVMe devices, into a single logical unit. Redundancy data is generated from data segments (barring RAID 0) and distributed across the devices. Consequently, operating systems interact 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 RAID controllers for a blend of modern technology and proven experience, providing the data protection that businesses need today.

PRAID EP520i

The RAID Controller PRAID EP520i with 2GB cache and 8x12Gbit/s SAS ports improves performance for storage intensive workloads such as databases and sets new speed and data security standards for internal storage drives. The new PRAID EP520i supports up to 8 SAS/SATA drives or up to 2 NVMe drives. NVMe is an interface with lower overhead, lower latency and drastically increased bandwidth and IOP's. The NVMe drive support will be available at a later date, but the SAS and SATA drives will benefit from the improved performance and higher cache size. The RAID stack is based on the Broadcom 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 ServerView RAID Manager. The PRAID EP520i is designed for 3, 6 and 12Gbit/s SAS as well as for 3 and 6Gbit/s SATA drives. Regardless of the drive speed, it delivers significant

performance improvements in both read and write applications. The controller firmware also supports FastPath® without an additional license. FastPath® accelerates the use of SSD only configurations. The RAID controller supports all of the important RAID levels including RAID 6 and 60. The optional flash battery backup (FBU) combined with the already included 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 TFM module is bundled with the controller, the FBU is optional.

Important information for later upgrade from or downgrade to std. SAS controller: Specific cable sets per system can be required as L-Part, please refer to Paper Configurator, order tool or controller and system documentation. Orders ex factory are configured with appropriate cables.



Features & Benefits

Main Features	Benefits
Number of supported drives <ul style="list-style-type: none">■ 8 lines of 12Gbit/s SAS ports PCI Express® 3.0 RAID levels <ul style="list-style-type: none">■ SAS3516 12Gbit/s RAID-on-Chip Scalable performance <ul style="list-style-type: none">■ 8 lines of 8 Gbit/s PCIe Gen 3 for up to 2x x2 NVMe drives; 2GB 2133MHz DDR4 cache memory Simplified management <ul style="list-style-type: none">■ User Management Options	<ul style="list-style-type: none">■ Connect up to 64 HDDs and SSDs■ RAID levels 0, 1, 5 and 6 for more data security, RAID spans 10, 50 and 60 for more data security■ NVMe is an interface with lower overhead, lower latency and drastically increased bandwidth and IOPS; Improves performance for storage intensive workloads (such as databases) and for certain load profiles like random access to databases (especially for SSD drives)■ Seamless merging of the RAID management into system management

Technical details

PRAID EP520i

Formfactor	Low profile
Formfactor	Full height
Formfactor	Low profile / Full height
Height of bracket	Low Profile (LP)
Height of bracket	Full Height (FH)
Height of bracket	Full Height / Low Profile

Compliance

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

Product Model name

Connection type

Warranty

Product Support - the perfect extension

Support Pack Options	Globally available in major metropolitan areas: 9x5, Next Business Day Onsite Response Time 9x5, 4h Onsite Response Time (depending on country) 24x7, 4h Onsite Response Time (depending on country)
Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Weblink	https://www.fujitsu.com/emeia/support/

More information

Fsas Technologies products, solutions & services

In addition to PRAID EP520i, Fsas Technologies provides a range of platform solutions. They combine reliable Fsas Technologies products with the best in services, know-how and worldwide partnerships.

Fsas Technologies Portfolio

Built on industry standards, Fsas Technologies offers a full portfolio of datacenter hardware, software and related services. This allows customers to select alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Data Center Solutions

<https://www.fsastech.com/en-eu/>

More information

Learn more about PRAID EP520i, please contact your Fsas Technologies sales representative or Business partner, or visit our website.
<http://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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