FUJITSU

Data Sheet
Fusion-io® ioDrive® Solid-State Storage devices

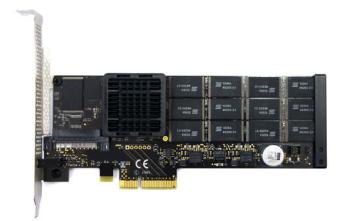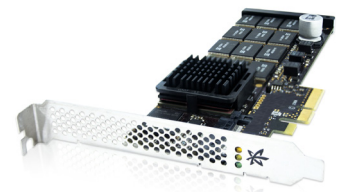Accelerate the performance of I/O intensive applications and workloads

A solid-state drive (SSD) is a data storage device with outstanding performance that uses solid-state memory to store persistent data with the intention of providing fast access in the same manner of traditional hard disk drives. Solid State Storage Technology can provide customer benefits in several different areas and with different architecture implementations. It offers high performance and reliability with no moving parts, low power requirements and improved environmental tolerance. SSD technology benefits are best realized with latency- sensitive environments for both read- and write- intensive workloads.

ioDrive® Solid-State Storage devices
The ioDrive® storage devices from Fusion-io® is part of Fujitsu's wide solid state storage portfolio. This storage device is targeted for customer scenarios and workloads requiring high transaction rates and real-time data access that will benefit from application performance enhancement. With performance comparable to DRAM and storage capacity on par with hard disks, ioDrive® storage devices from Fusion-io® increases performance so that every server can contain internal storage that exceeds the I/O performance of an enterprise SAN environment. As an I/O card, the ioDrive® storage devices is not a typical SSD drive, because it is attached directly on the PCI Express slot of

the server and offers extremely low latency and high bandwidth. The card is also developed to provide high I/O operations per second and almost symmetrical read / write performance. The PCIe-SSD is available in a standard low-profile PCIe form factor for PRIMERGY RX200, RX300, RX600 and RX900 rack servers.
(ioDrive is a registered trademark of Fusion-io)

Main Features	Benefits
■ Superior IO performance (100,000 Read IOPS / 145,000 Write IOPS), high read (up to 750 MB/s) and write (up to 550 GB/s) performance.	■ Minimized application latency to deliver groundbreaking improvements to computing performance, while greatly reducing hardware infrastructure, maintenance and floor space.
■ 320GB and 640GB capacity with Multi Level Cell (MLC) technology in a low profile PCIe form factor with full height (FH) and low profile (LP) bracket.	■ Advanced storage device using solid state storage technology directly on the PCI bus, assuring high read and write data rates.
■ Very low latency access to data which is ideal suited in use cases such as fast access to database log-files and reports, hypervisor running a large number of virtual machines or virtual desktop infrastructure solution.	■ Positive impact on business results and the ability to make decisions quickly, resulting in significant cost and time savings.
■ NAND technology with multi-level cell (MLC) flash memory to store data.	■ The ioDrive® storage devices provides faster performance and higher reliability than standard hard disk drives with rapid response in scenarios where output is needed in seconds or less.

Technical details

Technical details

Technology	PCIe-SSD Flash Drive
Form factor	Low Profile PCIe with Full Height (FH) and Low Profile (LP) bracket
Bus interface	PCIe x4
Bus type	PCIe 1.1
NAND Type	MLC (Multi Level Cell)
Supported systems	PRIMERGY RX600 S6, PRIMERGY RX900 S2
	For PRIMERGY RX600 S5, RX900 S1 and RX200 S6 the PRIMERGY PCIe-SSD is available on special release
Max. number per system unit	1x in RX200 S6
	2x in RX600 S5, RX600 S6, RX900 S1
	4x in RX900 S2

Environmental

Temperature (operating)	0 - 55 °C
Temperature (not operating)	-40 - 70 °C
Operating relative humidity	5 - 95 %

Compliance

Europe	CE
	EN
USA/Canada	FCC Class A
Global	RoHS
Japan	VCCI
South Korea	KC
Australia/New Zealand	AS / NZS CISPR 22
Taiwan	BSMI
Compliance notes	According to the corresponding system
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

More information

Fujitsu platform solutions

In addition to Fujitsu with ioDrive® Solid-State Storage devices, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu with ioDrive® Solid-State Storage devices, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.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 resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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