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.

Main Features

- 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.
- 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.
- 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.
- NAND technology with multi-level cell (MLC) flash memory to store data.

Benefits

- Minimized application latency to deliver groundbreaking improvements to computing performance, while greatly reducing hardware infrastructure, maintenance and floor space.
- Advanced storage device using solid state storage technology directly on the PCI bus, assuring high read and write data rates.
- Positive impact on business results and the ability to make decisions quickly, resulting in significant cost and time savings.
- 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

### 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
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.

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