NOW On SanDisk NAND

Fusion ioMemory™ SX350 PCIe Application Accelerators

Receive 2.5x - 4x price/performance savings over the previous ioDrive®2 PCIe card

Key Benefits

- Up to 2x the performance over the previous ioDrive2 PCIe card
- Ultra-Low Write Latency of 15μs
- Exceptional Random Write Performance of up to 385K
- Superior Reliability - UBER 10^{-20}
- Updated VSL for immediate data access
- Up to double the capacity over the previous ioDrive2 PCIe card
- Now available with FlashSoft® Software as a Caching Bundle

Read-Intensive Application Workloads

- Web Hosting
- Data Mining
- Seismic Data Processing
- Content Caching
- 3D Animation
- CAD/CAM

Introducing World Class Flash Memory

The Fusion ioMemory SX350 PCIe application accelerator offers a scalable and high capacity solution, with up to a 2.5x - 4x the price/performance benefits over the previous ioDrive2 PCIe card. The Fusion ioMemory SX350 PCIe series provides a cost-effective solution for read-intensive application workloads that include: web hosting, data mining, seismic data processing, content caching, 3D animation and CAD/CAM.

An Advanced Flash Technology

Available in capacities from 1.25TB - 6.4TB* with ultra-low 79/15μs read/write data access latency, and outstanding random read/write performance of up to 345K/385K IOPS. The Fusion ioMemory SX350 application accelerator provides an updated VSL® (virtual storage layer) that delivers direct memory access, minimizes latency and maximizes application throughput.

Inherent Data Integrity Built on a Rich Backbone of Reliability

The Fusion ioMemory SX350 PCIe device has a trusted architecture. SanDisk® delivers on the one important metric of storage memory which is ultra-low latency, not just bandwidth and operations per second. SanDisk has built-in self-healing features to all our Fusion ioMemory PCIe application accelerators, delivering superior reliability for an UBER of 10^{-20}. With over 7,000 customers and 250,000 units sold, this third generation of PCIe devices are designed to provide customers with the peace of mind that these products will perform in the field as intended.

Dramatically Reduced Total Cost of Ownership (TCO)

With the significant performance improvements, the Fusion ioMemory SX350 PCIe application accelerator provides over traditional hard disk drive infrastructures, customers can reduce infrastructure, increase the number of virtual machines, and improve overall system efficiency. These improvements provide savings in capital expenditures (CapEx) and operating expenditures (OpEx) which include reduced application licensing fees and savings related to space, cooling costs, and energy use.

SanDisk®
a Western Digital brand

Model Number	SX350-1300	SX350-1600	SX350-3200	SX350-6400
Usable MLC Capacity*	1.25TB	1.6TB	3.2TB	6.4TB
Read Bandwidth (GB/s)	2.8	2.8	2.8	2.8
Write Bandwidth (GB/s)**	1.3	1.7	2.2	2.2
Ran. Read IOPS (4K)	225,000	270,000	345,000	285,000
Ran. Write IOPS (4K)	345,000	375,000	385,000	385,000
Read Access Latency	79µs	79µs	79µs	79µs
Write Access Latency	15µs	15µs	15µs	15µs
Bus Interface	Gen2, x8			
Endurance (PBW)	4	5.5	11	22
Reliability (UBER)	10^{-20}			
Weight	5.2 ounces			7.25 ounces
Form Factor	Half Height, Half Length			Full Height, Half Length
Warranty	Limited 5 year warranty or maximum endurance used			
Operating Systems	Microsoft Windows: Windows Server Linux: RHEL; SLES; OEL; CentOS; Debian Squeeze; Ubuntu UNIX: Solaris Hypervisors: VMware ESXi, Windows Server 2012 with Hyper-V, Windows Server 2012 R2 with Hyper-V, Oracle VM 3.2.7 and up For current compatibility please visit http://support.fusionio.com/kb/vsl-software-and-operating-system-compatibility-matrix/			

Environmental Specifications

		Min	Max
Temperature[1]	Operational	0°C	55°C
	Non-operational	-40°C	70°C
Power Requirements			25 W
Air Flow (LFM)[2]		300	
Humidity (%)	Non-condensing	5	95
Altitude (ft)	Operational	-1,000	10,000
	Non-operational	-1,000	30,000

Agency

US/Canada	FCC Title 47, Part 15 Subpart B, Class A, CAN ICES-3 (A) NMB-3 (A)
Europe/CE	EN 55022: 2010, EN 61000-3-2: 2006 plus A1:2009 & A2:2009, EN 61000-3-3: 2008, EN 55024: 2010
Japan/VCCI	VCCI V-3/2013.04 ClassA & EN 55022 (2010) Class A, ANSI C63.4: 2009
Taiwan	BSMI CNS 13438: 2006 Class A, EN 55022 (2006)A1 (2007) Class A
Australia/New Zealand	AS/NZS CISPR 22: 2009 plus A1:2010
Korea	MSIP-REM-FIO-ioMemoryPX600
Low Voltage Directive Testing	Directive: 2006/95/EC, EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 and IEC 60950-1:2005 + A1:2009
RoHS	DIRECTIVE 2011/65/EU
REACH	Regulation (EC) No 1907/2006
WEEE	Directive 2002/96/EC

Fusion ioMemory™ SX350 PCIe Application Accelerator Ordering Information	
Part Number	**Capacity**
SDFADAMOS-1T30-SF1	1.25TB
SDFADAMOS-1T60-SF1	1.6TB
SDFADAMOS-3T20-SF1	3.2TB
SDFADCMOS-6T40-SF1	6.4TB

Specifications subject to change without notice. Performance results are based on internal testing and use. Results and performance may vary according to configurations and systems, including drive capacity, system architecture and applications.
* 1TB = 1,000,000,000,000 bytes. Actual user capacity less.
** Performance may vary based on host device. 1GB = 1,000,000,000 bytes.
1 Temperature derated 1°C per 1000 ft elevation above sea level
2 Products are designed for server platforms only and relies on 300 LFM (min) airflow, which is required for normal operation in server environments.

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At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.