

DSE4XM StorExpress Storage System



Dolphin's StorExpress is an ultrafast storage system based on the latest solid state memory technology. By utilizing solid state technologies, StorExpress offers higher reliability and lower power consumption than other storage solutions and delivers performance exceeding hundreds of traditional hard drives. In addition, StorExpress directly connects to any standard server using PCI Express cabling. Direct PCI Express connectivity eliminates the overhead of intermediate protocols such as fibre channel or SATA, resulting in easier installation and even greater performance. This high performance storage solution requires no software or application modifications. StorExpress is the ideal solution to improve the performance of database, web based, financial, industrial or high performance computing applications. The DSE4XM supports up to 4TB of high speed storage capacity.

Features

- Multi-terabytes of direct attached solid state storage to servers or blade servers
- Provides immediate acceleration to any data intensive application
- External storage using PCI Express based cabling or fiber optics
- Capable of 270,000 IOPS
- Enables large capacity flash with near DRAM speeds
- Up to 4 Tbytes of storage capacity per chassis
- High density 4U enclosure
- Less than 50 microsecond access latency
- Supports up to 2700 MB/Sec bandwidth to host system
- Low power solution
- Supports connection to multiple servers
- Integrates with Dolphin's cluster solution

Specifications

Capacity	3 TB 4 TB
I/O per second (x4/x8/dual x8 connections)	80,000/150,000 /270,000
Bandwidth	800/1500/2700 MiB/Sec (Read) 600/1250/2500 MiB/Sec (Write)
Host Support	Support for 1-4 hosts
Host Adapter Options	Low Profile PCI Express (Rack Servers) Express Module (Blade Servers) AMC (ATCA Servers)
PCI Express	Base Specification 1.1
Latency	< 50 Microseconds Read
Storage Media	NAND Flash SLC
Power	300 Watt power supply Redundant Hot-Swap
Mechanical Dimensions	482 (W) x 481 (D) x 177 (H) mm
Cables	Cabling 1-3 meters Optical cables available-up to 300m
Fans	Two 12cm dual ball bearing fans Up to 208 CFM
Operating Environment	Operating Temperature: 0°C - 40°C Relative Humidity: 5% -95% non-condensing
Operating Systems	Windows XP Pro 64 bit(SP2), Windows 2003 64 bit(SP2), Windows Vista 64 bit, Windows Server 2008 64 bit Red Hat Enterprise Linux 4 & 5 SuSe Linux Enterprise Server (SLES) 10 Debian/ Lenny, Etch, SLD Fedora Core 6,8, and 9 Ubuntu 8 CentOS 4 & 5
Regulatory	CE Mark, commercial FCC Class A
Product Codes	DSE4XM1-A0 /3 TB DSE4XM2-A0/ 4 TB

Configurations

