

StorExpress Storage System

DSE2XM - 2U Enclosure, up to 2 TB of Storage



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.

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 2 Tbytes of storage capacity per chassis
- High density 2U 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	480 GB 960 GB 1,920 GB
I/O per second (x4/x8/dual x8 connections)	80,000/150,000 /270,000
Bandwidth (x4/x8/dual x8 connections)	800/1500/2700 MB/Sec (Read) 600/1250/2500 MB/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/MLC
Power	Redundant Hot-Swappable supplies
Mechanical Dimensions	2U Rack-mount 16.8"W x3.5"H x17.9" D
Cables	Cabling 1-3 meters Optical cables available - up to 300m
Fans	4 (34CFM) fans 2 (16 CFM) Power Supply Fan
Operating Environment	Operating Temperature: 0°C -40°C Relative Humidity: 5% -95% non-condensing
Operating Systems	Windows XP Pro 64 bit, Windows 2003 64 bit, 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	DSE2XM1-A0 /480 GB DSE2XM2-A0/960 GB DSE2XM3-A0/1920 GB

Configurations

