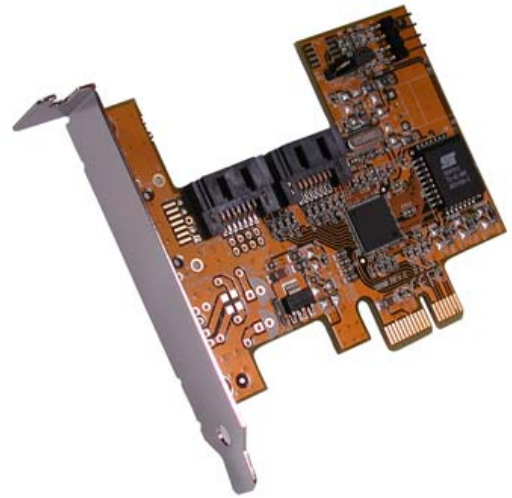# DT13 SATA2 Low Profile PCIe RAID Controller

- ✓ Supports 1-lane 2.5Gb/s PCI Express
- ✓ Onboard Sil3132 SATA2 Controller Chip
- ✓ Standard Low Profile Form Factor with Short Bracket
- ✓ Provides dual Serial ATA II Channels
- ✓ Provides 2 SATA Internal Connectors
- ✓ Supports RAID 0, 1, 0+1 and RAID 5 (over Port Multipliers)
- ✓ Supports SATA2 transfer rate of 3.0Gb/s
- ✓ Supports Legacy Command Queuing (LCQ)
- ✓ Supports Native Command Queuing (NCQ)
- ✓ Supports FIS-based switching with Port Multipliers
- ✓ Co-resides with Motherboard IDE and SATA devices
- ✓ ROM BIOS supports RAID setup and Boot Features
- ✓ Supports up to Hard Drives over 137GB
- ✓ Bundle Windows based RAID utilities for rebuilding array

INTRODUCTION

The DT13 is the most powerful Serial ATA II RAID controller to accommodate Serial ATA II hard drives with the new technology of RAID 0 (striping), RAID 1 (mirroring) and RAID 0+1, RAID 5 over Port Multipliers. Any system with a PCI Express interface can simply add the Serial ATA devices by simply adding the DT13 RAID controller card and loading the drivers and utility into the system.

Serial ATA is a high-speed serial link replacement for the parallel ATA attachment of mass storage devices. The serial link employed is a high-speed differential layer that utilizes gigabit technology and 8b/10b encoding. The current data rate is 1.5Gb/s (=150MB/s) and 3.0Gb/s. It will supports 6Gb/s in the future.

The DT13 supports two serial ATA ports, it supports 2 serial ATA devices (one for each) or can connect more devices via Port Multipliers. It provides complete software driver and RAID KIT. It is the right choice for a PCI Express to Serial ATA versatile devices.

SPECIFICATIONS

System
For 1-lane PCI Express Systems

PCI Express Interface
Fully PCI Express Specifications 1.0a Compliant

Serial ATA Ports
Two serial ATA ports which fully support devices up to 3.0Gb/s transfer rate.

- Supports RAID 0 (performance) and RAID 1 (data security) features.

- Supports RAID 0+1 and RAID 5 over Port Multipliers

- Onboard ROM BIOS Supports hard drives greater than 137GB

- Supports 2 Serial ATA devices with up to 3.0Gb/s rate (serial ATA Generation 2)

- Supports Native Command Queuing (NCQ)

Serial ATA Devices
Supports 2 Serial ATA devices: Hard drives, Removable HDD, and more coming ATAPI devices such as CD-ROM, CD-R, CD-RW, Tape, DVD-ROM, DVD-RW, PD, …

I/O Hardware
Supports 2 internal 7-pin serial ATA connectors

Software
Bundled Powerful Software Driver and RAID KIT for major Operating Systems

OS Support
Windows 2000, XP, Windows Server 2003

Form Factor
5.08″ x 2.50″ (12.90cm x 6.35cm)