

DT14 1+1 Port SATA2 Low Profile PCIe RAID Controller

- ✓ Supports 1-lane 2.5Gb/s PCI Express
- ✓ Onboard Sil3132 SATA2 Controller Chip
- ✓ Provides dual Serial ATA II Channels
- ✓ Supports Standard Low Profile Bracket
- ✓ 1 eSATA External and 1 Internal Connectors
- ✓ Supports RAID 0, 1, 0+1 and RAID 5 (over Port Multipliers)
- ✓ Supports SATA2 transfer rate of 3.0Gb/s
- ✓ 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 DT14 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 DT14 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 support 6Gb/s in the future.

The DT14 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 1 internal 7-pin SATA and 1 external eSATA connectors with Low Profile Bracket

Software

Bundled Complete Drivers 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)
