

# DT12: 1+1 Port SATA2 PCI Express RAID Controller

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- ✓ Supports 1-lane 2.5Gb/s PCI Express
- ✓ Onboard Sil3132 SATA2 Controller Chip
- ✓ Provides dual Serial ATA II Channels
- ✓ 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 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 DT12 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 DT12 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 DT12 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 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)

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