



FASTTRAK
TX2200, TX4200
QUICK START GUIDE

Version 1.3

FastTrak Installation Task List

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This Guide is designed to quickly get your FastTrak TX2200 or 4200 Serial ATA RAID controller card up and running using the default settings, which will be optimal for most users.

If you wish to modify any of the default settings, please refer to Chapter 3 of the *FastTrak TX2200, TX4200 User Manual* on the software CD.

Step 1: Unpack Your FastTrak Card

When you receive the FastTrak Serial ATA RAID card, the package should contain the items listed below:

- FastTrak TX2200 or TX4200 Serial ATA RAID Controller card
- Quick Start Guide
- FastTrak TX series driver diskette with Windows drivers
- 0.65 m (26 inch) Serial ATA data cables, two for TX2200, four for TX4200
- Y power splitter cable, one for TX2200, two for TX4200
- CD with all Promise Array Management (PAM) software, *PAM User Manual* and *FastTrak TX2200/TX4200 User Manual*

If ANY of the contents are missing or appear to be damaged, please contact your dealer or distributor immediately.



Warning

Before installing the adapter into an existing system, backup any important or useful data. Failure to follow this accepted PC practice could result in data loss.



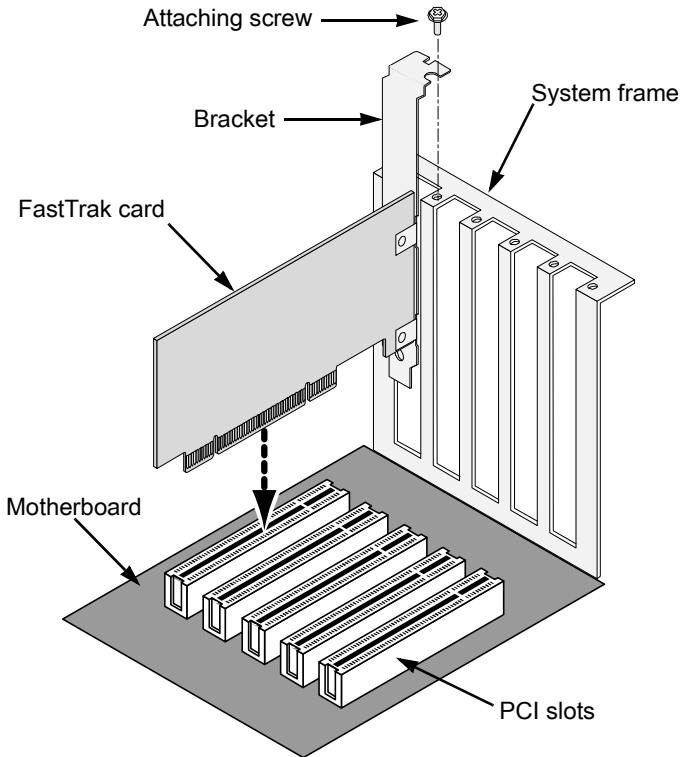
Warning

The FastTrak TX2200 and TX4200 Serial ATA RAID Controller cards, like other parts of your system, are subject to damage by static electricity. Be sure that you're properly grounded (Promise recommends that you wear an anti-static strap or touch a grounded object) and that you unplug your system before installing FastTrak.

Step 2: Install the FastTrak Card

The FastTrak TX2200 or TX4200 Serial ATA RAID card fits into any available PCI slot on your PC's motherboard (below):

- 32-bit PCI slot (must be PCI 2.2 or 2.3 compliant)
- The 32-bit portion of a 64-bit PCI slot



1. Remove the cover of your system.

2. Remove the inside slot cover of an available 32-bit PCI slot on the motherboard. Install the FastTrak Serial ATA RAID card into the open PCI slot. Secure the bracket to the system's frame.
3. Attach your system case's 2- or 4-pin LED cable to the LED connector on the FastTrak card (see *Install the Disk Drives*, below).
4. Fasten the controller card bracket to the system case.

Step 3: Install the Disk Drives



Important

If you wish to include your current bootable Serial ATA drive using the Windows 2000, XP or Server 2003 operating system as part of a bootable Mirrored (RAID 1) logical disk on your FastTrak card, do NOT connect the disk drive to the FastTrak yet.

You MUST install the Windows 2000, XP or Server 2003 driver software first onto this drive while it is still attached to your existing disk drive controller.

The FastTrak TX2200 card supports up to two Serial ATA drives while the TX4200 card supports up to four. For optimal performance, install Serial ATA drives of the same model and capacity. The drives' matched performance allows the logical disk to function better as a single drive.

If you are striping (RAID 0) for performance, use up to four new drives. If mirroring (RAID 1) for protection, you can use two new drives OR use an existing drive and a new drive (the new drive must be the same size or larger than the existing drive).

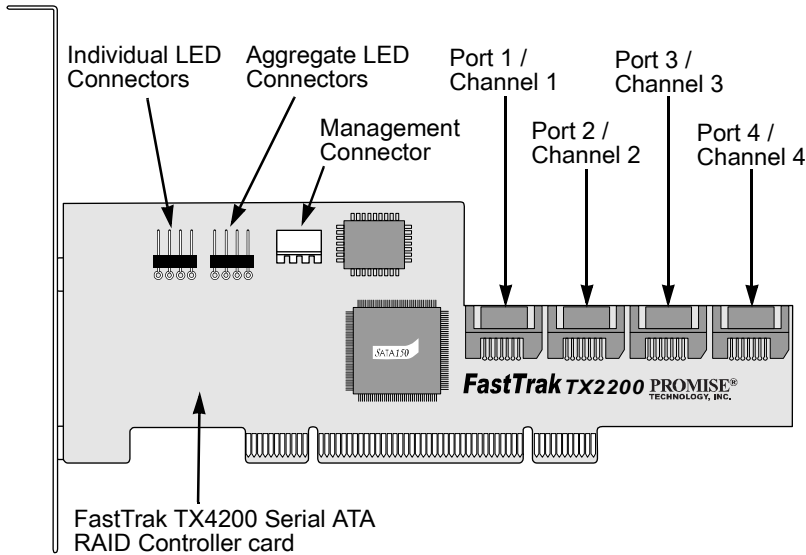
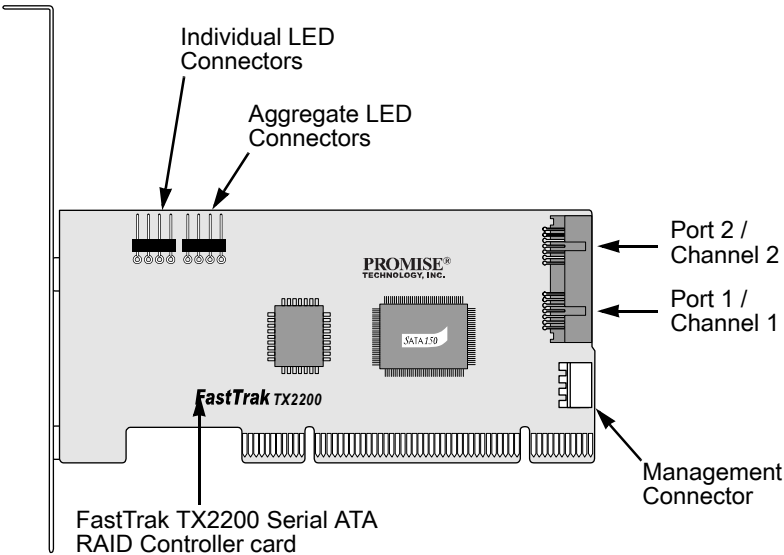
1. Install the disk drives into the drive bays of your system.
2. Attach the power cables to the disk drives..



Caution

Use of removable disk drive enclosures other than Promise Technology's SuperSwap is not supported and may result in performance loss or other undesired results.

3. Attach one Serial ATA data cable to each Serial ATA disk drive. Then attach the other ends of the cables to the connectors on the FastTrak card (below).



4. Attach the Y-cable power splitters to your Serial ATA disk drives.

If you are using a Promise SuperSwap 1100 or 4100 enclosure in your PC:

- Connect the power cables to the SuperSwap enclosure.
- Attach a SMBus cable from the Management Connector on the FastTrak card to the Management Connector on the first enclosure

These actions are described in Chapter 2 of the SuperSwap *User Manual*.



Note

The FastTrak TX2200 and TX4200 RAID Controllers are PCI Plug-n-Play (PnP) devices. No changes are necessary in the Motherboard CMOS Setup for resources or drive types in most applications.

Step 4: Create Your Logical Disk

You will now use the onboard FastBuild™ BIOS utility to create your logical disk using the attached drives. There are four different ways to create this logical disk. You can create a logical disk for:

- Performance (page 7)
- Security, using new disk drives (recommended) (page 8)
- Security, using an existing disk drive and a new one (page 9)
- Security, using Quick Initialization (page 11)

The first three steps are the same for all four choices. After that, follow the steps for the logical disk you want to create.

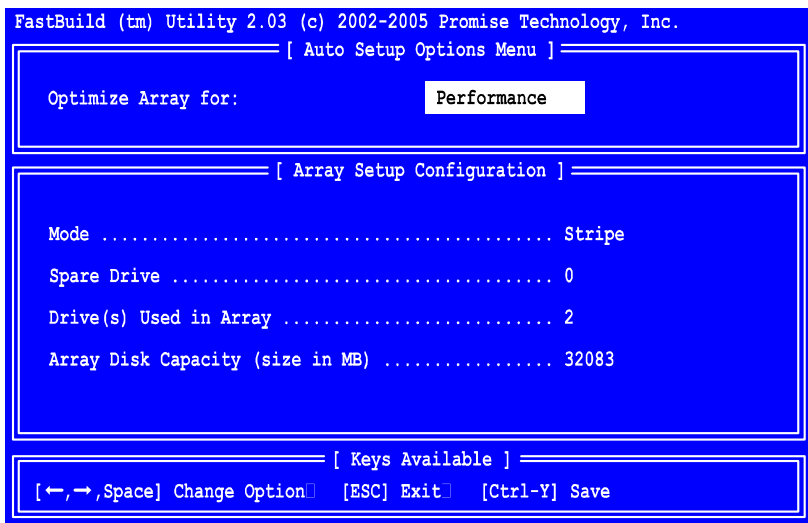
1. Boot your system. If this is the first time you have booted with the FastTrak TX2200 or TX4200 RAID Controller card and drives installed, the Promise onboard BIOS will display the following screen.

```
FastTrak TX4200 (tm) BIOS Version 2.00.0.xx
(c) 2003-2005 Promise Technology, Inc. All rights reserved.

No Array is defined...

Press <Ctrl-F> to enter FastBuild (tm) Utility...
Press <ESC> to continue booting...
```

2. Press the Ctrl-F keys to display the FastBuild Utility Main Menu.
3. Press "1" to display the Auto Setup Menu (below).



This is the fastest and easiest method to creating your first logical disk.

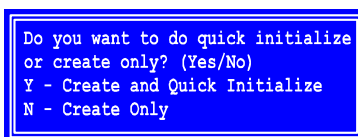
Performance Logical Disk (Array)

Use this setting to create a Striped (RAID 0) logical disk. These logical disks have no fault tolerance but they do have better read/write performance.

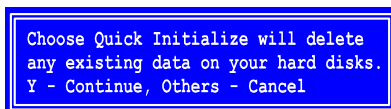
To create a logical disk for best performance, follow these steps:

1. Press the Spacebar to choose Performance under the Optimize Array for section.
2. Press Ctrl-Y to save the logical disk information.

The window below will appear.



3. If the drives in your logical disk have been used before, press Y for the Create and Quick Initialize option. Otherwise press N to Create only..



4. If you chose to initialize, press Y to verify that you want your disks initialized.
5. Press Esc twice to exit FastBuild and continue booting your computer.

Proceed to Step 5 and install the FastTrak driver.



Note

Before you can use your new logical disk, you must partition and format the logical disk using your PC's operating system.

Security Logical Disk with New Drives

Use this setting to create a Mirrored (RAID 1) logical disk with two new disk drives. If one of the drives has data on it, follow the Creating a Security Logical Disk with an Existing Data Drive procedure on the next page.

Under the Security setting in Auto Setup, FastTrak assigns two drives for a single Mirrored logical disk or four drives (TX4200) for a Striped/Mirrored logical disk (RAID 10).



Note

When creating a Security logical disk with new drives, a feature called Gigabyte Rounding will automatically be set to ON. For a description of this feature, see Chapter 3 of the *FastTrak TX2200, TX4200 User Manual*.

To create a logical disk for data protection using new disk drives, follow these steps:

1. Press the Spacebar to choose *Security* under the Optimize Array section.
2. Press Ctrl-Y to Save your selection.

The window below will appear.

```
Do you want the disk image to be
duplicated to another or do quick
initialize or create only? (Y/N/I)
Y - Create and Duplicate
N - Create Only
I - Create and Quick Initialize
```

2-drive RAID 1 logical disk

```
Do you want to do quick initialize
or create only? (Yes/No)
Y - Create and Quick Initialize
N - Create Only
```

4-drive RAID 10 logical disk

3. Press N for the Create Only option.
4. Press Esc twice to exit FastBuild and continue booting your computer.

Proceed to Step 5 and install the FastTrak driver.



Note

Before you can use your new logical disk, you must partition and format the logical disk using your PC's operating system.

Security Logical Disk with an Existing Data Drive

Use this setting to create a Mirrored (RAID 1) logical disk with a new disk drive and an existing drive with data and/or the bootable drive in your system. Use a new drive of identical or larger storage capacity as the existing drive.

Under the Security setting in Auto Setup, FastTrak assigns two drives for a single Mirrored logical disk. The Create and Duplicate function does not work with a four-drive Striped/Mirrored logical disk (RAID 10).

Choose this method if you wish to use a drive that already contains data and/or is the bootable drive from your system. Obtain a second disk drive of equal or larger storage capacity.



Warning

If you plan to create a Security logical disk using an existing disk drive, backup any important data. Failure to do so could result in data loss.



Important

If you wish to include your current bootable drive using the Windows 2000, XP or Server 2003 operating system as part of a bootable Mirrored (RAID 1) logical disk, do NOT connect the disk drive to the FastTrak yet.

You MUST install the FastTrak driver to this disk drive while it is still attached to your existing disk drive controller. See chapter 4 of the *FastTrak TX2200, TX4200 User Manual* for more information.

Follow these steps:

1. Press the Spacebar to choose *Security* under the Optimize Array section.
2. Press Ctrl-Y to Save your selection. The window below will appear.

```

Do you want the disk image to be
duplicated to another or do quick
initialize or create only? (Y/N/I)
Y - Create and Duplicate
N - Create Only
I - Create and Quick Initialize
    
```

- Press Y for the Create and Duplicate option.

The window below will appear asking you to select the Source drive to use.

```

FastBuild (tm) Utility 2.03 (c) 2002-2005 Promise Technology, Inc.

===== [ Source Disk ] =====
Channel:ID Drive Model Capacity (MB)
-----
[ Source Disk ]

===== [ Target Disk ] =====
Channel:ID Drive Model Capacity (MB)
-----
[ Target Disk ]

===== [ Please Select A Source Disk ] =====
Channel:ID Drive Model Capacity (MB)
-----
1:SATA ST3160023AS 160041
2:SATA ST3160023AS 160041
[ Please Select A Source Disk ]

===== [ Keys Available ] =====
[↑] Up [↓] Down [ESC] Exit [Enter] Select
    
```

- Use the arrow keys to choose which drive contains the existing data to be copied.
- Press Enter to Save selection the source disk.

Fast Build asks for verification.

```

Start to duplicate the image...
Do you want to continue? (Yes/No)
Y - Continue, N - Abort
    
```

- Press Y to continue.

FastBuild will copy all data from the Source drive to the Target drive and report its progress in percent completed.



7. Press Esc twice to exit FastBuild and continue booting your computer.

Proceed to Step 5 and install the FastTrak driver.



Note

Before you can use your new logical disk, you must partition and format the logical disk using your PC's operating system.

Security Logical Disk with Quick Initialization

Use this setting to create a Mirrored (RAID 1) logical disk with one or two existing disk drives containing data that you do *not* want to keep. This method creates a mirrored logical disk and erases the first data block from your existing drives.

Under the Security setting in Auto Setup, FastTrak assigns two drives for a single Mirrored logical disk or four drives (TX4200) for a Striped/Mirrored logical disk (RAID 10).

Choose this method if you wish to create a mirrored logical disk with existing disk drives but you do not want to keep the data currently on those drives.



Warning

Using the Quick Initialization option on existing drives will result in the loss of all data on those drives.

Follow these steps:

1. Press the Spacebar to choose *Security* under the Optimize Array section.
2. Press Ctrl-Y to Save your selection.

The window below will appear.

```
Do you want the disk image to be
duplicated to another or do quick
initialize or create only? (Y/N/I)
Y - Create and Duplicate
N - Create Only
I - Create and Quick Initialize
```

2-drive RAID 1 logical disk

```
Do you want to do quick initialize
or create only? (Yes/No)
Y - Create and Quick Initialize
N - Create Only
```

4-drive RAID 10 logical disk

3. For the Create and Quick Initialize option:

- Press I if you have a two-drive RAID 1 logical disk (above, left).
- Press Y if you have a four-drive RAID 10 logical disk (above, right).

```
Choose Quick Initialize will delete
any existing data on your hard disks.
Y - Continue, Others - Cancel
```

4. Press Y to verify that you want your disks initialized.

5. Press Esc twice to exit FastBuild and continue booting your computer.

Proceed to Step 5 and install the FastTrak driver.



Note

Before you can use your new logical disk, you must partition and format the logical disk using your PC's operating system.

Step 5: Install Software Drivers

Drivers for Windows 2000 XP and Server 2003 are included on the driver diskette that came with your FastTrak Controller card. Please download the latest drivers from the Promise website at **www.promise.com**.

Windows systems usually recognize the FastTrak Controller, prompt you for the diskette and perform the driver installation automatically.

If you are installing the FastTrak Controller at the same time as your operating system or you prefer to read step-by-step directions, see Chapter 4 of the *FastTrak TX200/TX4200 User Manual* on the software CD.

Drivers and installation instructions for other operating systems are downloadable from the Promise website at **www.promise.com**.