



FastTrak SX4000

Quick Start Guide

Version 2.0

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Step 1: Unpack your FastTrak

Open the FastTrak box and carefully remove the FastTrak card and accessories from the box. The FastTrak SX4000 package should contain the following items:

- FastTrak SX4000 Controller Card
- FastTrak SX4000 Quick Start Guide
- FastTrak SX4000 OS drivers diskette (1)
- CD containing Utilities and Documentation (1)
- Internal 18 inch (46 cm) Ultra ATA, 80-wire/40-pin hard drive cables (4)
- Y-cable power splitters (2)

If any of the items are missing or appear damaged, please contact your dealer or distributor immediately.



Attention

The FastTrak SX4000 controller card, like many other parts of your PC, is sensitive to static electricity. Be sure that you are properly grounded (Promise recommends that you wear an anti-static strap, or place a free hand on a grounded object), and that your PC is unplugged before installing any of the FastTrak SX4000 components.

Step 2: FastTrak Card Installation

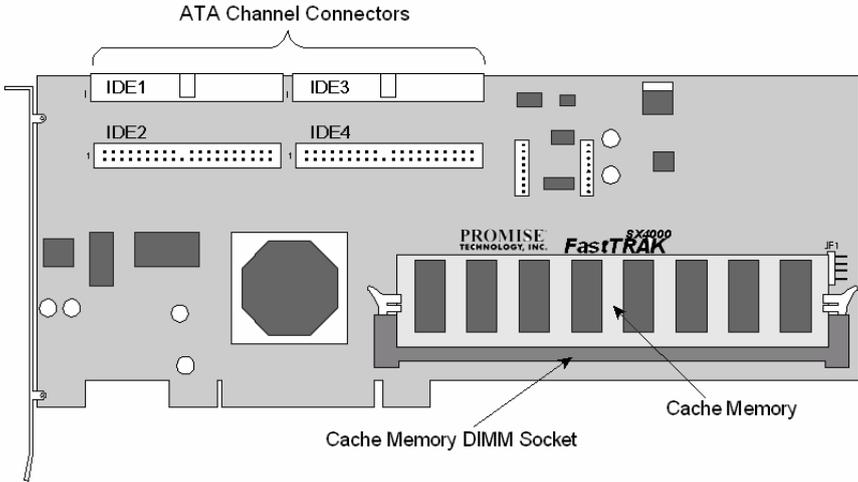


Figure 1. FastTrak SX4000 controller card

1. Install a DIMM memory chip into the slot at DIMM1. The minimum memory requirement is 64 MB. You may use up to 256 MB ECC or non-ECC, unbuffered 168-pin PC100 or higher SDRAM.
2. Install the controller card into an available PCI slot on the system motherboard and secure it to the PC's chassis.

Step 3: Connect the Hard Drives

1. Set your hard drives to *Master*, *Cable-Select* or *Single* (depending on drive specification).
2. Install your hard drives into the PC chassis.
3. Attach the black end of Ultra ATA cable to the ATA connector of each drive.
4. Attach a power cable to the power connector of each drive.
5. Connect the blue end of the Ultra ATA cable to any available ATA channel on the FastTrak SX4000.

Note



Device support for drives is provided by the FastTrak SX4000 system. No changes are necessary in the motherboard CMOS/BIOS Setup for resources or drive types regarding hard drive configuration.

Step 4: Create an Array

Appendix A of the FastTrak SX4000 User's Manual contains an explanation of RAID Levels. If you are new to RAID, you may wish to read about it before creating your first array.

1. Boot your computer and watch for the Promise FastTrak SX4000 BIOS to appear (below).

```
FastTrak SX4000 (tm) BIOS Version 1.10.02
(c) 2001 Promise Technology, Inc. All rights reserved.

ID      MODE      SIZE      TRACK-MAPPING      STATUS
-----
Press <Ctrl-F> to enter Array BIOS Configuration Utility...
```

Figure 2. FastTrak BIOS Screen.

2. Press Ctrl-F to open the Configuration Utility. The Main Menu appears (below).

```
FastBuild Array Utility 1.10 (c) 2001 Promise Technology, Inc.
[ Main Menu ]

View Drive Assignments.....[ 1 ]
View/Define Array.....[ 2 ]
Delete Array.....[ 3 ]
Controller Configuration.....[ 4 ]

[ Keys Available ]
Press 1..4 to Select Option [ESC]..Exit
```

Figure 3. Array Utility Opening Screen.

3. Use the FastBuild utility to create at least one array on the drive(s) attached to the FastTrak SX4000 card.

Select *View/Define Array... [2]*. The Define Array screen appears (below).

```

FastBuild Array Utility 1.10 (c) 2001 Promise Technology, Inc.
[ Define Array Menu ]

  Array No  RAID Level  Total Drv  Capacity (MB)  Status
  Array 1   -----   -----   -----   -----
  Array 2   -----   -----   -----   -----
  Array 3   -----   -----   -----   -----
  Array 4   -----   -----   -----   -----

[ Keys Available ]
Note: *-- Bootable Array
[↑] Up [↓] Down [ESC] Exit [Enter] Select [Space] Change Boot Drive

```

Figure 4. Define Array Menu.

- Press the arrow keys to highlight an Array Number then press Enter to select it. The Array Definition menu appears (below).

```

FastBuild Array Utility 1.10 (c) 2001 Promise Technology, Inc.
[ Define Array Definition Menu ]

  Array No  RAID Level  Total Drv  Status
  Array 1   RAID 5      3          Functional

  Stripe Block: 64 KB          Gigabyte Boundary: ON

[ Drive Assignments ]

  Channel ID  Drive Model  Capacity (MB)  Assignment
  1:Master    MAXTOR87000A8  -----   -----
  2:Master    MAXTOR87000A8  -----   -----
  3:Master    MAXTOR87000A8  -----   -----
  4:Master    MAXTOR87000A8  -----   -----

[ Keys Available ]
[↑] Up [↓] Down [Space] Change Option [ESC] Exit [Ctrl-Y] Save

```

Figure 5. Array Definition Menu.

- Press the arrow keys to highlight RAID Level and drives for the array. Press the Spacebar to switch among available options. Promise recommends keeping the default values for Stripe Block and Gigabyte Boundary unless you have specific reasons for changing them. The FastTrak SX4000 User's Manual contains an explanation of these features.
- Press Ctrl-Y to save your selection. The Define Array Menu (Figure 5) reappears.
- Press Esc to exit or Enter to select another array to build.
- Restart your computer to make the array available.
- Partition and format the array as you would an individual hard drive. The array is now ready for use.

Step 5: Driver Installation

This section details the FastTrak SX4000 driver installation when used with various operating systems. The software includes the driver necessary to identify FastTrak SX4000 to the operating system.

Installing Driver During New Windows XP Installation

1. Start the installation: Boot from the CD-ROM. Press F6 after the message "Press F6 if you need to install third party SCSI or RAID driver" appears.
2. When the Windows XP Setup window is generated, press S to specify an Additional Device(s)
3. Insert the Promise Technology driver diskette into drive A: and press Enter.
4. Choose *WinXP Promise FastTrak SX4000™ Series Controller* from the list that appears on screen, and then press the Enter.
5. Press S to use the driver on the floppy disk and then press Enter to continue with installation.
6. The Windows XP Setup screen will appear again saying "Setup will load support for the following mass storage devices:" The list will include *WinXP Promise FastTrak SX4000™ Series Controller*.
NOTE: If you need to specify any additional devices to be installed, do so at this time. Once all devices are specified, continue to the next step.
7. From the Windows XP Setup screen, press the Enter. Setup will now load all device files and then continue the Windows XP installation.

Installing Driver in Existing Windows XP System

Warning



If you plan to move the boot drive containing the existing Windows XP operating system to the FastTrak SX4000 card, you **MUST** load the FastTrak SX4000 driver to the boot drive while it is still attached to your existing hard drive controller.
Do not attach the boot drive to the FastTrak SX4000 controller card before completing this step.

After installing the FastTrak SX4000 card and rebooting your system, Windows XP setup will show a Found New Hardware dialog box. Under Windows XP, Mass Storage Controller will be displayed.

1. Insert the FastTrak SX4000 driver diskette into the A: drive.
2. Choose *Install* the software automatically and press the Enter.
3. Choose *WinXP Promise FastTrak SX4000™ Series Controller* from the list that appears on screen then press Enter.
4. If you are using a driver that has not been digitally signed by Microsoft, you will be asked if you want to continue the installation. Click on *Continue anyway*.
5. When the New Hardware Wizard has finished installing the Promise software, click on Finish.

Confirming Windows XP Installation

1. From Windows XP, open the Control Panel from My Computer.
2. Click on Performance and maintenance.
3. Click on the System icon.
4. Choose the Hardware tab, and then click the Device Manager tab.
5. Click the + in front of SCSI controllers. *WinXP Promise FastTrak SX4000™ Series Controller* should appear.

Other Operating Systems

For information on installing FastTrak drivers on earlier versions of Windows and other operating systems, see the User's Manual on the CD that was included with your FastTrak SX4000.