

GIGABIT ETHERNET ADAPTER

10/100/1000 Mbits/sec PCI Gigabit
Ethernet Adapter

ST1000BT32
ST1000BT64

Instruction Guide



* ST1000BT32 shown

* Actual product may vary from photo

StarTech.com 

The Professionals' Source For Hard-to-Find Computer Parts

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Table of Contents

Introduction	2
Installation	3
Installing the Drivers	3
Technical Support	5
Warranty Information	5

Introduction

Thank you for purchasing a StarTech.com Gigabit Ethernet adapter. Now your network can experience incredibly fast data transfer speeds of up to 1000 Mbits/sec. With its auto-sensing and auto-negotiation features, this card is also backwards-compatible with 100 Mbits/sec Fast Ethernet and 10 Mbits/sec Ethernet speeds and is capable of both full- and half-duplex communications.

The ST1000BT64 is compliant with both 64-bit and 32-bit PCI specifications. The ST1000BT32 is compliant with 32-bit PCI specifications.

Features

- Supports 64/32-bit (ST1000BT64) or 32-bit (ST1000BT32) 66/33 MHz PCI Local Bus Master Version 2.2/2.1
- Complies with IEEE 802.3, IEEE 802.3u, and IEEE 802.3ab specifications
- Supports IEEE 802.3x full-duplex flow control
- Supports Plug and Play installation and automatic IRQ and I/O address setup
- Supports Jumbo Packet
- Built-in FIFO buffers reduce memory transfer overhead
- Backed by StarTech.com's lifetime warranty

Before You Begin

To ensure a quick and easy card installation, please read the following section before installing your card.

System Requirements

- A PC and BIOS that supports PCI Local Bus Specification v2.0 or higher (Make sure that your BIOS is updated) running Windows XP, 2000, NT, Me, 98, 95 OSR2, Netware Server 5.x, Linux
- An available bus-mastering 32- or 64-bit PCI slot
- Cat 5e (or higher) UTP cable (for best results)

Contents

This package should contain:

- 1 x PCI Gigabit Ethernet network adapter
- 1 x driver disk

Installation

This section will guide you through the installation of your card and the related software. Please read through the instructions carefully and complete each step in the order listed.

Installing the Card

1. Make sure that your computer power cord is unplugged and you are grounded.
2. Remove the cover of your system (see your computer's user manual for details, if necessary) and gently turn your computer onto its side.
3. Locate an empty PCI slot (usually white in colour, a 64-bit slot will be longer than a 32-bit slot) and remove the metal plate that covers the rear bracket. You may need a Phillips screwdriver to perform this step. **Hang on to the screw!** You will need it to secure the card later.
4. Gently insert the card into the empty slot, making sure it is firmly seated.

NOTE: If you are using the ST1000BT64-bit card in a 32-bit slot, make sure that the exposed end of the card is not in contact with any conducting parts on your motherboard. Not all motherboards allow 64-bit cards to fit into 32-bit slots.

5. Secure the card in place using the screw you removed in Step 3.
6. Put the computer case back on.
7. Plug the computer power cord back into an appropriate power source.

Installing the Drivers

NOTE: The following instructions are for Windows users only. Linux or Netware users should consult the Readme.txt files in their respective folders. Depending on your OS and the configuration of your system, the instructions below may not be identical to the instructions on your screen.

Windows XP/2000/98/Me

1. Windows will automatically detect the new hardware. Click **Next**.
2. Select "Search for the best driver for your device (Recommended)" and click **Next**.
3. Insert your driver disk into the disk drive, browse to the **WinXP**, **Win2000**, **WinMe**, or **Win98** folder on the disk drive, then click **Next**.
4. Click **Next**. Windows will now install the driver.
5. When the download is complete, click **Finish**. If prompted, choose to restart your system.

Windows 95B

1. Windows will automatically detect the new hardware. Select “Driver from disk provided by hardware manufacturer” and click **OK**.
2. Insert the driver disk into the disk drive. Browse to the **Win95B** folder on the driver disk and click **OK**. You may be required to provide your Windows 95 installation disk.
3. When all drivers have been installed, reboot your computer to initialize the network function.

Windows NT 4

1. Click on **Start**, then **Settings**, then **Control Panel**.
2. Click on the **Network** icon.
3. In the Network Settings box, choose “Add Adapter.”
4. Select “<Other> Requires disk from manufacturer” and press **Enter**.
5. Insert the drive disk into your disk drive. Browse to the **WinNT4** folder on the driver disk and click **OK**.
6. Windows NT will begin the binding process. If any additional network software options were installed, you may be prompted for specific information about these packages.
7. When installation is complete, restart your computer.

Monitoring Your Card

The card uses three Link/Activity LEDs to indicate the connection rate and activity of the card. The three LEDs are for **10**, **100**, or **1000** Mbits/sec. A **solid** LED indicates that a link has been established at that rate. A **blinking** LED indicates that there is traffic flow on the network.

If no Link/Activity LED is lit, there is a connection error. Make sure that all devices are turned on and that the network cable is properly connected at both ends. Also make sure that your network cables comply with EIA/TIA 568 and at least Cat 5e specifications.

If problems persist, power down all devices and disconnect all plugs. Wait at least ten seconds then plug the devices back in and power them up.

Connecting Your Card to Your Network

Depending on how you are planning on using the card, the device you are connecting it to and the type of cable you need may differ. To take advantage of the card's Gigabit (1000 Mbps/sec) capacity, it is recommended that you always use at least Cat. 5e Ethernet cable. If you are unsure of the type of cable required for your device, consult your device manufacturer.

NOTE: StarTech.com carries a wide range of Cat. 5e and Cat. 6 Ethernet cables in various colors and lengths. For more information on these products, as well as tips and ideas for setting up and running your network, visit <http://www.startech.com> and click on the Networking tab near the top of the screen.

- If you are connecting your computer directly to **another computer**, you need to use a **crossover** cable.
- If you are connecting your computer to a **hub or switch**, you should use a **straight-through** cable.
- If you are connecting your computer to the **Internet** via a DSL or cable modem, you should use the cable recommended by the modem manufacturer.

Tips for Setting Up Your Network

For information and help on setting up your network, please consult the manufacturer of your operating system. The following is for tips and troubleshooting purposes only and is intended for Microsoft users on a local area network.

Make sure your computers are configured properly

For your convenience, you should configure each of your computers so that they can "see" each other and share devices and files. To do this, you have to make sure that the following have been installed on your computers:

- Client for Microsoft Networks
- TCP/IP (Internet Protocol)
- File and Print Sharing

These clients, protocols, and services can be found in the following locations:

Windows XP

1. Click on **Start**, then click **My Network Places**.
2. Click **View Network Connections** in the Network Tasks box.
3. Right-click on **Local Area Connection** and choose **Properties**.

Windows 2000

1. Click on **Start**, then **Settings**, then **Network and Dialup Connections**.
2. Double-click **Local Area Connections** and click the **Properties** button.

Windows Me/98/95

1. Click on **Start**, then **Settings**, then **Control Panel**.
2. Double-click on **Network**.

NOTE: If you need to add any of the following components, check your Windows documentation for details.

Make sure all your computers are on the same workgroup

To be able to communicate properly with each other, each computer must be located on the same workgroup. Each computer within a workgroup must have a unique name. To ensure compatibility between each version of Windows, keep your computer names under 13 characters long. To view, add, or edit your computer's name, do the following:

Windows XP

1. Click **Start** and then **Control Panel**.
2. Double-click **System** then click on the computer name tab.

Windows 2000

1. Click on **Start**, then **Settings**, then **Control Panel**.
2. Double-click on **System**.
3. Click on the **Network Identification** tab.

Windows Me/98/95

1. Click **Start**, then **Settings**, then **Control Panel**.
2. Double-click **Network**, then click the **Identification** tab.

Make Sure Your Sharing is Set Up Properly

1. Go to your network dialog box using the procedure explained under "Make sure your computers are configured properly."
2. Click on **File and Print Sharing**.
3. Choose whether you want to install one, both, or neither of these options. Click **OK**.
4. Decide what files or folders you want to share. You can call up sharing options by right-clicking on a file or folder and choose "Sharing" (Windows 2000/Me/98/95) or "Sharing and Security" (Windows XP).

NOTE: If you are having **any** difficulties setting up or using your network, please contact your operating system vendor.

Technical Specifications

Connector	RJ-45
Standard	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTx IEEE 802.3ab 1000BaseT
Transmission Rate (Mbits/sec)	10/20 (half/full duplex) 100/200 (half/full duplex) 1000/2000 (half/full duplex)
IRQ Line	Assigned by system
I/O Address	Assigned by system
Drivers	Windows 95 OSR2/98/NT/Me/2000/XP, Netware Server 5.x, Linux
LEDs	10 Mbits/sec Link/Activity 100 Mbits/sec Link/Activity 1000 Mbits/sec Link/Activity
Temperature	31~131°F (0~55°C)
Humidity	10~95% (non-condensing)
Certification	FCC Class B, CE Mark, C-tick

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, www.startech.com. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**

Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a lifetime warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Revised: May 26, 2003