MEDIA CONVERTER

100 Mbps RJ45 to Fiber
Media Converter

ET9003SC
ET9003ST

Instruction Guide

* Actual product may vary from photo

StarTech.com

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

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FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A 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.

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 one-year 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.

Monitoring Your Fast Ethernet Converter

The LEDs on the front of the converter are your best indication of the converter's activity.

LED	Color	Status	Description
Power	Green	Lit Off	Power is supplied No power
FDX	Green	Lit Off	Full-duplex mode Half-duplex mode
Fiber Link/Activity	Green	Lit Flash Off	Valid link established Data packets received No link established
UTP Link/Activity	Green	Lit Flash Off	Valid link established Data packets received No link established

Troubleshooting

If you experience any difficulties with your converter, first make sure that all cables are firmly seated at both ends and that they are plugged into the proper ports.

Link/Activity LEDs are not lit.

- Check that the network device connected to the converter is turned on.
- Make sure that the UTP cables comply with EIA/TIA 568 Category 5 specifications and that the fiber optic cables comply with industry standards.

Can not transmit data.

- Make sure that the UTP distance does not exceed 100m. If the FDX LED is not lit, make sure that fiber optic cable distance does not exceed 140m. If the FDX LED is lit, make sure that the fiber optic cable distance does not exceed 2KM. Also make sure that 62.5/125 micron multi-mode fiber optic cable is used.

Technical Specifications

Standards	IEEE 802.3u 100BaseTX and 100BaseFX
Dimensions	4.84 x 2.67 x 0.98 in. (123 x 68 x 24mm)
Operating Temperature	32-131ºF (0-55ºC)
Operating Humidity	10-95% (Non-condensing)
Emission	FCC Class A, CE Mark

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Introduction

Thank you for purchasing a StarTech.com Fast Ethernet media converter. Now you can switch from fiber optic to UTP cables and vice versa. Simply plug your ST or SC multi-mode fiber optic cables into the two fiber optic ports and your UTP cable into the RJ-45 port and your data transfers seamlessly at 100BaseTX or 100BaseFX Fast Ethernet standards. The converter also supports automatic full- and half-duplex modes so that your Fast Ethernet devices will be operating at their maximum speeds.

Features

- Converts fiber optic data to UTP data and vice versa
- Supports 100BaseTX and 100BaseFX Fast Ethernet standards
- Supports fiber optic transmission up to 2KM
- Supports full- and half-duplex operating modes
- Backed by StarTech.com's one-year warranty

Before You Begin

To ensure a quick and easy device installation, please read through this section carefully before attempting to install the device.

WARNING! The Fast Ethernet converter must be installed and operated in an environment with temperatures between **32-131°F (0-55°C)** and humidity levels of **10-95% (non-condensing)**. Make sure that the converter is kept away from heating sources and that the vents at the side of the device are not blocked. Do not place any objects on top of the device. Make sure that no water or moisture enters the unit. If necessary, use a dehumidifier to reduce humidity near the device.

Requirements

You must be using Category 5 or above UTP media cables and 62.5/125 micron multimode ST or SC fiber optic cables in order to use this device.

NOTE: StarTech.com carries a wide range of UTP and fiber optic cables to suit your networking needs. Visit www.startech.com and click on the "Networking" tab for product information, as well as ideas and suggestions on setting up your network.

Contents

This package should contain:

- 1 x Fast Ethernet converter
- 1 x power adapter

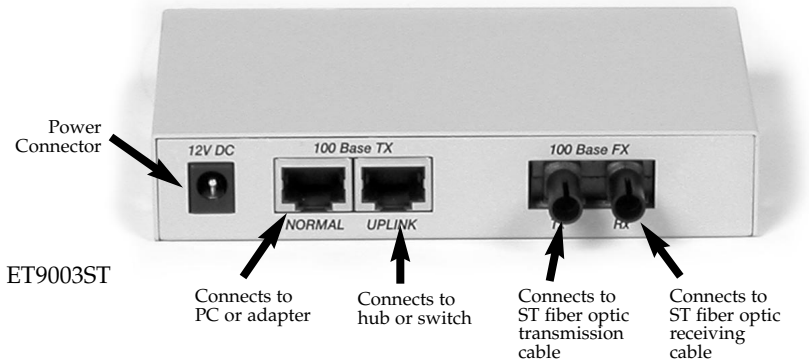
Installation

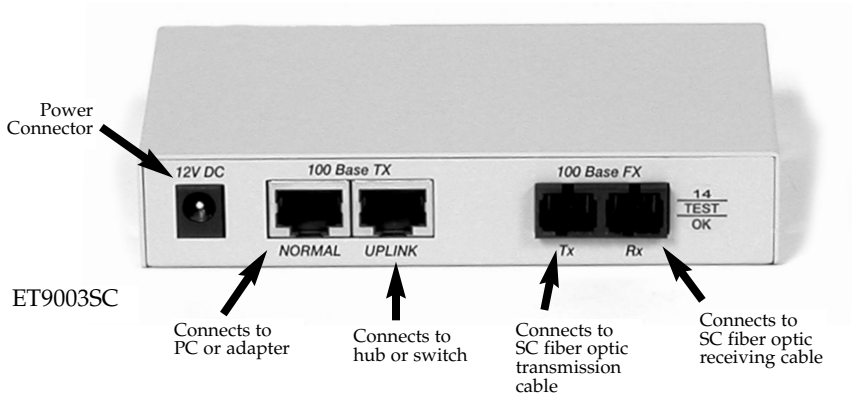
This section will guide you through the installation of your Fast Ethernet converter. Please read through the instructions carefully and complete each step in the order listed.

WARNING! Exposure to live fiber optic cable can potentially pose an irreversable threat to your vision. **Under no circumstances should you look directly into a fiber optic cable.** Before you begin make sure that all devices are turned off and disconnected and keep fiber optic cables pointed away from your eyes and face at all times. The delicate nature of fiber optic cabling also means it can be easily damaged or broken. Be sure to handle fiber optic cables carefully.

1. Plug your Category 5 or above UTP cable into one of the RJ-45 ports on the back of the device.

NOTE: If the other end of the cable is connected to a PC or adapter, you should use a straight-through cable and the converter's **Normal** port. If the other end of the cable is attached to a hub or switch, you should use a crossover cable and the **Uplink** port.





2. Remove the rubber dust caps from the 100BaseFX ports. Plug your ST or SC fiber optic transmission cable into the Tx port. Plug your receiving cable into the Rx port. You should re-install the dust caps when the device is not in use.

3. Plug one end of the power supply into the 12V DC port on the converter. Plug the other end into an available electric socket. The green Power LED should now be lit.