

off Which means that the fiber optic connector is operating in half-duplex mode. Flashing green indicates for collision.

### FDX/HDX Switch

**FDX:** The UTP port operate in full-duplex mode ;

**HDX:** The UTP port operate in haf-duplex mode;

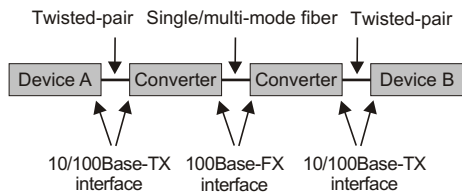
*Notice: You must reset the converter when you achieve the configuration.*

## Installation Guide

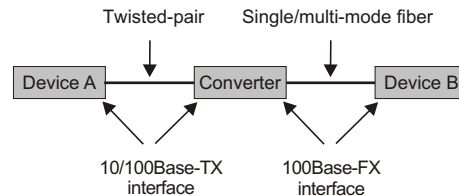
### Configuration

In order to achieve the aim of effectively expanding a Fast Ethernet network, You can use the converter for example :

1. Position two converters back to back between the following end devices.



2. Another effective application is to position one converter directly between a 10/100Base-TX network and a fiber optic (FX) device.



### Installation Procedure

1. Converter to 10/100Base-TX Device (hub or switch) Connection

Make sure that the length of twisted pair cable (Category-5) between 10/100Base-TX device and converter is no longer than 100 meters.

Connect one end of twisted pair cable to RJ45 jack on the converter and the other end of the cable to the RJ45 jack on the 10/100Base-TX device.

2. Converter to Converter or 100Base-FX Device Connection  
Connect one (SC) end of a fiber cable to the SC connector

on the converter and the other end of the cable to the SC connector on the other converter or 100Base-FX device.

3. Turn on the power

### Appendix Specifications

Standard:	IEEE 802.3/IEEE 802.3u
Connector:	1 SC fiber optic; 1 RJ45 jack
Max. Distance:	Twisted Pair(cat5):100m Multi-mode Fiber Optic: 2km Single-mode Fiber Optic: 20/40/60km
Power:	external power supply, 9V 0.8A
Temperature:	Operation: -10 to 50 °C Storage: -40 to 70 °C
Humidity:	10%-90% (non-condensing)
Dimensions:	123mmx67mmx24 mm (LxWxH)



**TP-LINK®**

**User's Guide**

TR-932D

TR-962D

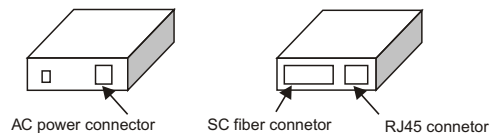
10/100Mbps Fast Ethernet Converter

## Table of Contents

Introduction.....	2
Features.....	2
Network Cable Supported.....	3
Package Contents.....	3
Appearance Indication.....	4
Installation Guide.....	5
Appendix Specifications.....	7

## Introduction

The TR-9XX series products are 10/100Mbps fast ethernet converter. The converter mediates between a 10/100Base-TX segment and a 100Base-FX segment. It is primarily designed for large, more high speed/bandwidth demanding workgroups that require expansion of the Fast Ethernet network.



## Features

Complies with 802.3u 10/100Base-TX and 100Base-FX standard.

Provide one SC fiber connector and one UTP connector.

Auto-detection of half/full duplex transfer mode for TX port.

Auto-negotiation of 10/100Mbps rate and Auto-Crossover for TX port.

Provide switch configuration of half/full duplex transfer mode for FX port.

Extend fiber distance up to 2km for multi-mode fiber and

20-60km for single-mode fiber.

Easy-to-view LED indicators provide status to monitor network activity easily.

External power supply.

## Network Cable Supported

The connectors and network cables supported by the converter are listed in the following:

UTP: Cat 5 Twisted-Pair

Fiber SC: 1300nm 62.5/125,50/125um Single/Multi-mode fiber

Type	Connetor	Transmission Distance	Transmission Media
TR-932D	RJ45-SC	2km	Multi-mode Fiber,Cat-5
TR-962D-20	RJ45-SC	20km	Single-mode Fiber,Cat-5
TR-962D-40	RJ45-SC	40km	Single-mode Fiber,Cat-5
TR-962D-60	RJ45-SC	60km	Single-mode Fiber,Cat-5

## Package Contents

Before start using the products, make sure that what you have is what you ordered.

The Converter includes:

One Converter

One AC adapter

This User's Guide

## Appearance Indication

### LED Indicators

This converter has LED indicators which can provide a real-time report. When you take a look at these indicators, you will know what's happening on your network.

**Power(green)** Lights when the adapter is properly plugged in.

**TX\_SPD(green)** Lights when the UTP ports is connected to 100Base-Tx device.

**TX\_LINK/ACT(green)** Steady green indicates that a valid link exists. Flashing green indicates that the converter is receiving data or transmitting data from the RJ45 connector.

**FX\_LINK/ACT(green)** Steady green indicates that a valid link exists. Flashing green indicates that the converter is receiving data or transmitting data from the Fiber Optic connector.

**FX\_FDX/COL(green)** Steady green indicates that the fiber optic connector is operating in full-duplex mode. The light is