TP-LINK® **User's Guide**

TR-966D

10/100Mbps WDM Fiber Bridge

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Table of Content

Package Contents

The following contents should be found in your box:

- One WDM Fiber Bridge
- One AC adapter
- This User's Guide
- Warranty card

Introduction

The TR-966D product is 10/100Mbps WDM Fiber Bridge. By deploying WDM technology (Wavelength Division Multiplexer), only single-mode fiber is needed to transmit and receive optical Ethernet packets.

The TR-966D 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

- Compiles with 802.3u 10/100Base-TX and 100Base-FX standard.
- Provide two SC fiber connectors and two RJ45 connectors.

- Auto-detection of half/full duplex transfer mode for RJ45 port.
- Auto-negotiation of 10/100Mbps rate and Auto-MDIX for RJ45 port.
- Fiber port only support full duplex transfer.
- Extend fiber distance up to 20km for fiber port.
- Easy-to-view LED indicators provide status to easily monitor network activity.
- External power supply.

Network Cable Supported

The connectors and network cables supported by the TR-966D are listed in the following:

- RJ45 port: Cat 5 Twisted-pair
- SC Fiber port: single-mode fiber cable

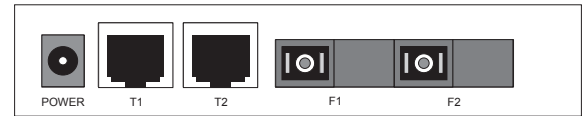## Appearance Indication

1. Front Panel

The front panel of the TR-966D consists of several LED indicators

TR-966D Front Panel

2. Rear Panel

The rear panel of the TR-966D consists of one AC power connector, two 10/100Mbps RJ45 ports and two SC Fiber interfaces.

TR-966D Rear Panel

3. LED Indicators

This TR-966D has LED indicators which can provide a real-time report. When you take a look at these indicators, you will know what's happening your network.
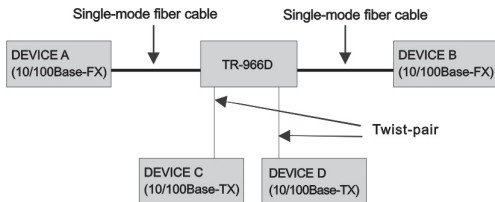
- **Power(Red):** Lights when the adapter is properly plugged in.
- **T1_SPD/T2_SPD(Green):** Light when the RJ45 port is connected to 100Mbps device; When the port connect to a 10Mbps device, the LED turns off.

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- **T1_Link/ Act/ T2_Link/ Act(Green):** Steady green indicates that a valid link exists. Flashing green indicates that the TR-966D is receiving or transmitting data from the RJ-45 port.

- **F1_Link/Act/ F2_Link/Act (Green):** Steady green indicates that a valid link exists. Flashing green indicates that the TR-966D is receiving or transmitting data from the fiber port.

Installation Guide

1. Configuration

In order to achieve the aim of effectively expanding a Fast Ethernet network, you can use the TR-966D as the example.

2. Installation procedure:

A. Connect the TR-966D to 10/100Base-TX Device (Hub or Switch).

- Make sure that the length of twisted pair cable (Category-5) between 10/100Base-TX device and converter is not longer than 100 meters.

- Connect one end of twisted pair cable to RJ45 jack on the TR-966D and the other end of the cable to the cable to the RJ-45 jack on the 10/100Base-TX device.

B. Connect the TR-966D to 100Base-FX Device Connection.

Connect on (SC) end of a singl-mode fiber cable to the SC connector F1/F2 on the TR-966D and the other end of the cable to 100Base-FX device.

C. Turn on the device.

⚠ Notes:

The WDM technology employs passive optic multiplexing, thus multiplex the transmit (TX) and receive (RX) lines onto a single fiber. WDM technology is implemented in couples. For example, one site uses the F1 fiber port on the TR-966D, the other site uses DEVICE A, the fiber port on DEVICE A must be 1550nm/1310nm WDM fiber; One site uses the F2 fiber port on the TR-966D, the other site uses DEVICE B, the fiber port on DEVICE B must be 1310nm/1550nm WDM fiber.

Appendix Specification

General	
Standard	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX/100Base-FX
Topology	Star
Protocol	CDMA/CD
Data Transfer Rate	Ethernet: 10Mbps(Half Duplex); 20Mbps(Full Duplex)
	Fast Ethernet: 100Mbps(Half Duplex); 200Mbps(Full Duplex)
Ports	2 10/100Mbps RJ-45 ports
	2 SC Fiber ports (F1: 1310/1550 nm Single- mode single Fiber F2: 1550/1310 nm Single-mode single Fiber)
LED indicator	POWER — Power on
	Each port — RJ45 port:10/100Mbps Link/Act and 100Mbps speed LED
	Fiber port: 100Mbps Link/Act
Network Medium	RJ45 port: Cat. 5 Twist-pair
	SC Fiber port: single-mode fiber cable
Max. Distance	Twisted pair (Cat.5): 100m
	Single-mode fiber cable: 20km

Environmental and Physical	
Power	Power Adapter (9V, 0.8A)
Dimension(LxWxH)	122mmx76mmx24mm
Environment	Operating temperature: 0ºC ~ 40ºC
	Storage temperature: -20ºC ~ 70ºC
	Humidity: 5% ~ 90% RH

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