

Supports ACPI, PCI power management  
Complies with the IEEE802.3u Fast Ethernet, 100Base-TX standard and IEEE802.3 CSMA/CD 10Base-T standard  
Supports Full Duplex Flow Control (IEEE 802.3x)  
Full duplex design to double the performance  
Supports Auto-Negotiation function  
Auto-setups IRQ and I/O address  
Contains two large (2Kbyte) independent receive and transmit FIFOs  
One STP/UTP connector for 10Mbps or 100Mbps network Speed  
Provides diagnostic software and one LED to indicate network Link/activity  
Supports smart remote boot ROM and provides the help for RPL/PXE(Exclude TF-3239DL)  
Supports ODI Driver for NetWare 3.x, 4.x, NDIS Driver for LAN Manager, Windows 95, Windows NT, Windows 2000, Packet driver for TCP/IP

## Chapter 2 Installation

### Card Installation

To insert The Product into your computer, follow the steps list below.

- 1、 Turn off the computer and remove its cover.
- 2、 Insert The Product into a PCI slot.
- 3、 Secure the Product to the rear of the computer chassis and put back the computer cover.
- 4、 Connect the Product to the network using twisted-pair cables.

### Driver Installation

Use the drivers supplied by the diskette included in The Product. For detail description, please refer to "help" in the diskette provided by the Product.

## Appendix A: Troubleshooting

If you experience any problems with the adapter, first make sure the appropriate driver is loaded, the proper cable is connected to the adapter port and the hub complies with the adapter specification, such as 10Mbps 10Base-T or 100Mbps 100Base-TX. Then recheck the LED.

The Product provided one LEDs to indicate network status.

### LINK/ACTIVE LED

A red LED indicates if the 10 or 100Mbps STP/UTP has been link OK or not and is working or not. When the light is OFF, it indicates that the STP/UTP port has not been connected or link not OK; When the light is ON, it indicates that the STP/UTP port link OK. When the light is BLINKING, it indicates that the STP/UTP port is receiving data or transmitting data.

## Appendix B: Technical Specification

Topology: Star  
Connector Supported: RJ45  
Standard: IEEE802.3 10Base-T  
IEEE802.3u 100Base-TX  
Transmission Rate: 100Mbps or 200Mbps  
Hardware: IBM PC compatibles(It must have PCI slot)  
IRQ Line: Assigned by system

I/O Address: Assigned by system  
Software: ODI driver for NetWare 3.x, 4.x, NDIS driver for Microsoft LAN manager and Windows 98, Windows ME, Windows NT, Windows 2000 Packet driver for TCP/IP  
Temperature: 0°C to 40°C (Operating)  
Humidity: 5% to 95% (Non-condensing)  
Power consumption: 1W(Max)

## Appendix C: Contact Information

For help with the installation or operation of the TP-LINK TF-3239D/TF-3239DL Adapter, please contact us.

**TP-LINK TECHNOLOGIES CO., LTD.**

**Add:** Fl.3, Bldg.R1-B, High-Tech Industrial Park, Shennan Road, Shenzhen, China

**E-mail:** [support@tp-link.com](mailto:support@tp-link.com)

**Website:** <http://www.tp-link.com>

Made in China



TF-3239D/TF-3239DL

10/100M Fast Ethernet Adapter

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## FCC STATEMENT

The adapter 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.

Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

## EC DECLARATION OF CONFORMITY (EUROPE)

In compliance with the EMC Directive 89/336/EEC, the adapter meets the requirements of the following standards:

EN55022

EN55024

## SAFETY NOTICES



**Caution:**

Do not use this product near water, for example, in a wet basement or near a swimming pool.

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Thank you for purchasing TF-3239 series 10/100M Fast Ethernet Adapters. This guide is to provide the installation and usage of the Products for network installers or users. The Product complies with PCI 2.1/2.2 specification and supports half/full duplex feature which can double network speed.

The Adapters support both 10Mbps and 100Mbps network speed, 100Base-TX operates on twisted pairs of Category 5 UTP and 10Base-T operates on Category 3, 4, 5 UTP. The Products use Auto-Negotiation technology to detect the network speed. Extensive driver supports for including commonly used network operation system Netware, Win9x, Win2000, Windows NT, and TCP/IP are available.

This manual is divided into two chapters and two appendices. The following summarizes the contents of the chapters and appendices.

## Chapter 1 Introduction

### Hardware Overview

TF-3239 series Adapters are highly integrated and cost-effective single-chip Fast Ethernet Adapter that provides 32-bit performance, PCI bus master capability, and full compliance with IEEE 802.3u 100Base-TX specifications and IEEE 802.3x Full Duplex Flow Control. They also support ACPI, PCI power management for modern operating systems that is capable of Operating System Directed Power Management (OSPM) to achieve the most efficient power management.

The Adapters keep network maintenance cost low and eliminate usage barriers. It is the easiest way to upgrade a network from 10 to 100Mbps. The product is highly integrated and requires no "glue" logic or external

memory.

It includes an interface for a boot ROM and can be used in diskless workstations, providing maximum network security and ease of management (Exclude TF-3239DL).

They also support full-duplex operation, making possible 200Mbps of bandwidth at no additional cost. The Adapters support both 10Mbps and 100Mbps network speed, 100Base-TX operate on twisted pairs of Category 5 UTP and 10Base-T operate on Category 3, 4, 5 UTP. The Adapters use Auto-Negotiation technology to detect the network speed. Extensive driver supports for including commonly used network operation system Netware, Win9x, Win2000, Windows NT, and TCP/IP are available.

Whatever your requirements are ease of installation, superior performance, or responsive support backed up by unlimited technical support, the Product is the superior choice.

### Features & Benefits

Integrated Ethernet MAC, Physical chip and transceiver in one chip

Compliant to PCI Revision 2.1/2.2

PCI local bus single-chip Ethernet controller

Supports PCI clock 16.75MHz-40MHz

Supports a 32-bit general-purpose timer, referenced by the external PCI clock source, and timer-interrupt

Includes a programmable, PCI burst size and early Tx/Rx threshold

Supports PCI target fast back-to-back transaction

Supports digital and analog loopback capability on both ports

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