

TP-Link Technologies Co., Ltd.

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Central Science and Technology Park,Nanshan

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To the attention of

Federal Communications Commission

Authorization and Evaluation Division

Confidentiality Request

Pursuant to Sections 0.457 and 0.459 of the Commission's Rules, the Applicant hereby requests confidential treatment of information accompanying this Application as outlined below:

Schematics


Block Diagram

Operational Description

The above materials contain trade secrets and proprietary information not customarily released to the public. The public disclosure of these matters might be harmful to the Applicant and provide unjustified benefits to its competitors.

The Applicant understands that pursuant to Rule 0.457, disclosure of this Application and all accompanying documentation will not be made before the date of the Grant for this application.

Sincerely yours,



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1.1 Product Overview

The device is designed to provide a simple and cost-effective ADSL Internet connection for a private Ethernet or IEEE 802.11n/ IEEE 802.11g/ IEEE 802.11b wireless network.

The TD-W8951ND connects to an Ethernet LAN or computers via standard Ethernet ports. The ADSL connection is made using ordinary telephone line with standard connectors. Multiple workstations can be networked and connected to the Internet using a single Wide Area Network (WAN) interface and single global IP address. The advanced security enhancements, **IP/MAC Filter**, **Application Filter** and **URL Filter** can help to protect your network from potentially devastating intrusions by malicious agents from the outside of your network.

Quick Start of the Web-based Utility is supplied and friendly help messages are provided for the configuration. Network and Router management is done through the Web-based Utility which can be accessed through local Ethernet using any web browser.

ADSL

The TD-W8951ND supports full-rate ADSL2+ connectivity conforming to the ITU and ANSI specifications. In addition to the basic DMT physical layer functions, the ADSL2+ PHY supports dual latency ADSL2+ framing (fast and interleaved) and the I.432 ATM Physical Layer.

Wireless

In the most attentive wireless security, the Router provides multiple protection measures. It can be set to turn off the wireless network name (SSID) broadcast so that only stations that have the SSID can be connected. The Router provides wireless LAN 64/128-bit WEP encryption security, WPA-PSK/WPA2-PSK authentication, as well as TKIP/AES encryption security.

1.2 Main Features

- Four 10/100Mbps Auto-Negotiation RJ45 LAN ports (Auto MDI/MDIX), one RJ11 port.
- Provides external splitter.
- Adopts Advanced DMT modulation and demodulation technology.
- Supports bridge mode and Router function.
- Multi-user sharing a high-speed Internet connection.

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- Downstream data rates up to 24Mbps, upstream data rates up to 3.5Mbps (With Annex M enabled) .
 - Supports long transfers, the max line length can reach to 6.5Km.
 - Supports remote configuration and management through SNMP and CWMP.
 - Supports PPPoE, it allows connecting the internet on demand and disconnecting from the Internet when idle.
 - Provides reliable ESD and surge-protect function with quick response semi-conductive surge protection circuit.
 - High speed and asymmetrical data transmit mode, provides safe and exclusive bandwidth.
 - Supports All ADSL industrial standards.
 - Compatible with all mainstream DSLAM (CO).
 - Provides integrated access of internet and route function which face to SOHO user.
 - Real-time Configuration and device monitoring.
 - Supports Multiple PVC (Permanent Virtual Circuit).
 - Built-in DHCP server.
 - Built-in firewall, supporting IP/MAC filter, Application filter and URL filter.
 - Supports Virtual Server, DMZ host and IP Address Mapping.
 - Supports Dynamic DNS, UPnP and Static Routing.
 - Supports system log and flow Statistics.
 - Supports firmware upgrade and Web management.
 - Provides WPA-PSK/WPA2-PSK data security, TKIP/AES encryption security.
 - Provides 64/128-bit WEP encryption security and wireless LAN ACL (Access Control List).