

## 1 Overview, Checklist

### 1. Overview

IEEE802.3 10Mbps Ethernet supports various type media for network connection such as 10Base-2 and 10Base-T. The media converter is used to convert one type media signal to other type equivalent that allows multiple type segments cross connect easily and inexpensively. The converters are available as a standalone unit or as a slide-in module to the 19" converter rack (up to 10 units) for use at a wiring closet.

### 2. Model Description

Model	
TP-BNC	RJ-45 ↔ 10Base-2 BNC

The available Fiber Transceiver:	
ST/SC multi-mode	Default
ST single-mode	optional

### 3. Checklist

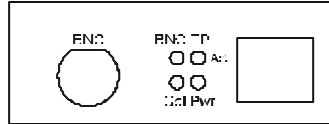
Before you start installing the Converter, verify that the package contains the following:

- The Converter
- AC-DC Power Adapter
- This User's Manual
- T-Connector (for TP-BNC converter only)

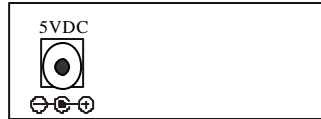
Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

## 2 Front, Side and Rear Panel

10Mbps TP-to-BNC Converter Front and Side



Power Input +5VDC Jack on Rear Panel



## 3 Installation

### 4. Installing the Converter

For as a slide-in unit:

- ⇒ Turn off the 19" converter rack power
- ⇒ Locate +5VDC power plug on converter back, carefully slide in and plug to match 19" rack +5V power jack
- ⇒ Ensure that there is no activity in the network
- ⇒ Cable connection: Connect the media cable

TP Port:	Attach UTP Cat. 3 or 5 cable to TP port MPR : To a Hub or Repeater DTE : To a workstation
Slide switch "DTE" / "MPR" is on the side panel Default: MPR	
BNC Port:	Attach T-Connector to BNC port and connect the RG-58 coaxial network. Ensure the coaxial cable/segment is terminated at both ends properly

- ⇒ Turn on the converter rack power, the Power LED will light up

For as a standalone unit:

- ⇒ Insert the AC-DC adapter and verify that the Power LED is ON
- ⇒ Cable connection is the same as the slide-in unit

#### Note:

Use the straight-through cable

(RJ-45 wiring pininputs, 1, 2, 3, 6 to 1, 2, 3, 6):

**MPR(Default):** To a Hub or Repeater

DTE : To a workstation (Internal crossover ready)

You may configure the MPR-DTE slide switch on the side panel for network connection.

### Connecting to 10/100Mbps N-Way Device

Converter Model	10/100Mbps NWay Inter-operating
TP-Fiber Converter(Fdx/Hdx) multi-mode or single mode	The remote link device must be forced to 10Mbps at full-duplex or half-duplex
TP-Fiber Converter(Hdx) multi-mode	The remote link device is auto-sensing and comes to 10Mbps half-duplex
TP-BNC Converter	The remote link device is auto-sensing and comes to 10Mbps half-duplex

## 5. LED Description

TP-Fiber Converter(Fdx/Hdx, Hdx):

LED	Color	Function
FL Link/Act	Green	Lit when Fiber cable connection is good Blinks when any FL traffic is present
TP link/Act	Green	Lit when Fiber cable connection is good Blinks when any FL traffic is present
Power	Green	Lit when +5V power is coming up
Collision	Amber	Blinks when any collision is present

TP-BNC Converter:

LED	Color	Function
BNC ACT	Green	Blinks when BNC traffic is present
POWER	Green	Lit when +5V power is coming up
TP LINK/ACT	Green	Lit when TP connection is good Blinks when TP traffic is present
Collision	Amber	Blinks when any collision is present

## 6. TP-Fiber Technical Specifications

- **Standards** : IEEE802.3 10Base-T and 10Base-FL
- **TP Port** : RJ-45 jack with a slide switch for “DTE” or “MPR” selection
- **Fiber Port** : TP-ST.M (ST multi-mode)  
TP-SC.M (SC multi-mode)  
TP-ST.S (ST single-mode, Fdx/Hdx model only)
- **UTP Cable** : Cat. 3 or 5 cable up to 100m
- **Fiber Cable** : 50/125, 62.5/125, or 100/140mm multi-mode  
8.3/125, 8.7/125, 9/125 or 10/125mm single-mode

### 10Base-FL ST/SC Fiber Cable

#### Limitations:

Fiber Half/Full-duplex	multi-mode: 2Km
Fiber Half/Full-duplex	single-mode: 10Km

- **Data Transfer Rate:**  
10Mbps at half-duplex  
20Mbps for full-duplex model only
- **LED Indicators** :  
FL Link/Act, Power, TP Link/Act, Col
- **Power Requirement** : 1A@+5V
- **Ambient Temperature** : 0° to 50°C
- **Humidity** : 5% to 90%
- **Dimensions** : 26(H) × 70(W) × 112(D) mm

Note: Connecting to Router, Bridge, or Switching Hub, please refer to the device's Technical Manual.

## 7. TP-BNC Technical Specifications

- **Standards** : IEEE802.3 10Base-T and 10Base-2
- **TP Port** : RJ-45 jack with a slide switch for “DTE” or “MPR” selection
- **BNC Port** : BNC connector
- **Cable and Distance** :
  - Category 3/5 unshielded or shielded twisted pair (UTP/STP) wire, max. length 100 meters (328ft)
  - 0.2 inch diameter RG-58A/U, 50Ω(ohm) coaxial cable, max. length 185 meters(607ft)
- **Data Transfer Rate:**  
10Mbps at Half-duplex mode
- **LED Indicators** : BNC/Act, Power, TP Link/Act
- **Power Requirement** : 1A@+5V
- **Ambient Temperature** : 0° to 50°C
- **Humidity** : 5% to 90%
- **Dimensions** : 26mm(H) × 70(W)mm × 114mm(D)

## 8. AC-DC Power Adapter(optional)

(Skip over the adapter if your model is Slide-in unit)

AC Input : 100–240VAC 50/60Hz  
DC Output: 1A@+5VDC