

FT-701A / FT-702A

100Base-FX to 100Base-TX

Fast Ethernet Converter

(Rev 2.0A)

1. Checklist

Your FT-701A/FT-702A carton should contain the following items:

- ⇒ The FT-701A(ST) / FT-702A(SC) Fast Ethernet Converter
- ⇒ Power Adapter
- ⇒ This user's guide

If any item is missing or damaged, please consult the dealer from whom you purchased your FT-701A/FT-702A.

2. Overview

FT-701A/702A is an Ethernet/IEEE802.3u 100Base-TX to 100Base-FX Fast Ethernet Converter. This converter is available in two models:

- ⇒ FT-701A : on board ST fiber connector
- ⇒ FT-702A : on board SC fiber connector

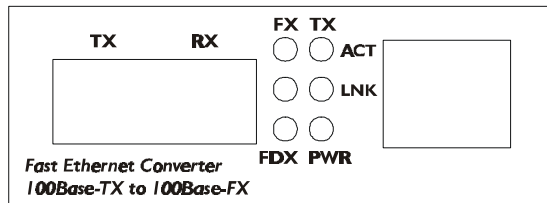
Six LEDs (FX: Act, Link, TX: Act, Link, PWR, FDX) are equipped on the side panel.

3. Installing the FT-701A / FT-702A

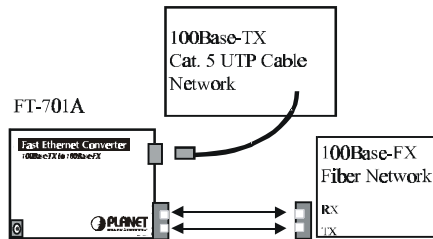
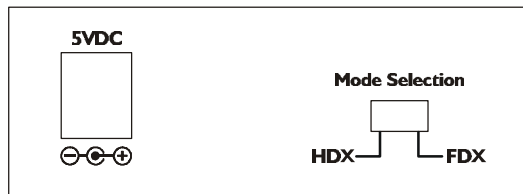
Please follow these steps to install FT-701A/FT-702A:

- Turn off the power of the device/station in a network to which the FT-701A/702A will be attached
- Ensure that there is no activity in the network
- Attach fiber cable from the FT-701A/702A to the fiber network. TX, RX must be paired at both ends
- Attach a Cat. 5 UTP cable from the 100Base-TX network to the RJ-45 port on the FT-701A/702A.
- Set the Duplex Mode according to the attached device. FDX for both end full-duplex. In default, HDX.
- Connect the 5VDC power adapter to the FT-701A/702A and verify that the Power LED lights up.
- Turn on the power of the device/station, the TX Link and FX Link LEDs should light when all cables are attached

Right View of FT-701A/FT-702A



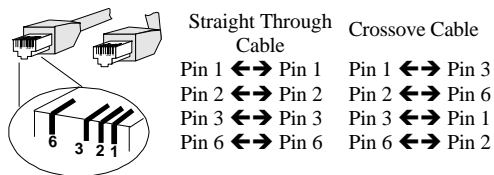
Left View of FT-701A/FT-702A



Note:

- Cabling from FT-701A/702A STP port is as below:

- To Workstation: Crossover cable
- To Hubs/Repeater: Straight through cable



- The FT-701A / FT-702A supports both half/full-duplex Fast Ethernet. Full/Half duplex mode is selectable.

4. FT-701A/FT-702A Technical Specifications

The FT-701A/ 702A come with the following standard features:

- **Standard** : IEEE802.3u, 100Base-TX and 100Base-FX
- **Connectors** :
 - ⇒ FT-701A: RJ-45 and Fiber ST connectors
 - ⇒ FT-702A: RJ-45 and Fiber SC connectors
- **Data Transfer Rate** : 100Mbps
- **Duplex mode support** : full or half-duplex mode
- **LED indicators** : PWR, TX Link/ACT, FX Link/ACT, FDX
- **Power Requirement** : 5V ,1A
- **Ambient Temperature** : 0° to 70°C
- **Humidity** : 5% to 90%
- **Dimension** : 26mm(H) x 70mm(W) x 97mm (D)
- **Cable** :
 - ⇒ UTP : Cat 5 UTP cable
 - ⇒ Fiber : 50/125 **mm** or 62.5/125 **mm** optic fiber

5. Cable Connection Guide

Fast Ethernet 100Base-X networks allows 512bit time delay between any two node stations in a collision domain.

The followings are UTP / Fiber-Optic Cable and devices bit-time delay (round trip):

DTE to DTE	: 100BT
Class II Repeater Hub:	92BT
Cat 5. TP wire	: 1.112 BT/meter
Fiber-Optic	: 1.0BT/ meter
TX to FX Converter	: 56BT

The overall bit time of TP/Fiber wires and devices must be within 512bit time in a segment.

To extend the distance, you may use switching hub to break up a collision domain.

The limitations are as below:

Half-Duplex: Node to Node/Switching: 412 meter

Full-Duplex: Node to Node/Switching : 2Km

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

