

# ET-509(U)

## Ethernet Converter

### User's Manual

(9704-Rev. U2)

## 1. Checklist

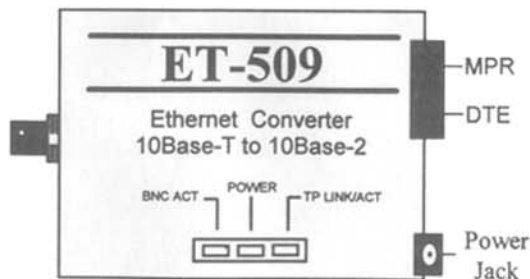
Before you start installing the ET-509(U), verify the package contains the following items:

- ET-509(U) Converter Rev. U2
- T-Connector
- AC-DC Power Adapter
- This User's Manual

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

## 2. Overview

ET-509(U) is an Ethernet/ 10Base-T to 10Base-2 Converter. This converter is equipped with a BNC connector and two RJ-45 jacks. BNC ACT, POWER, TP LINK/ACT LEDs are equipped on the front panel.



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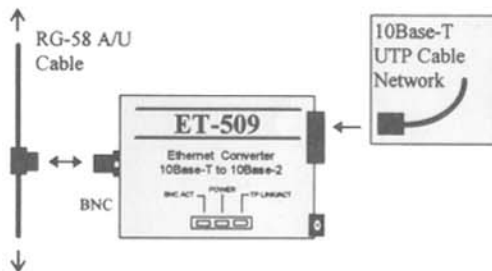
## 3. Installing the ET-509(U)

Please follow these steps to install your ET-509(U):

- ⇒ Attach T-Connector to BNC port and connect the RG-58 coaxial network. Ensure that the coaxial cable/segment is terminated at both ends properly.
- ⇒ Attach a UTP cable from the 10Base-T network to the RJ-45 port on the ET-509(U)
- ⇒ Connect the power adapter to the ET-509(U) and verify that the Power LED lights up.

The BNC ACT LED blinks to indicate the BNC port activity. The TP LINK/ACT LED lights up when TP cable connection is good and blinks to indicate the TP port activity. POWER LED blinks when collision signal presents.

## 4. Network Connection



Note:

- Either DTE or MPR can be used at a time, do not attach both ports in network connection.
- 10Base-T port for cabling connections:
  - DTE: To an UTP workstation
  - MPR: Up-link to a Hub or Repeater
- ET-509(U) is an Ethernet Repeater, a maximum of four repeaters may be used between any two stations.

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## 5. Technical Specifications

ET-509(U) comes with the following standard features:

- **Standard** : IEEE802.3 10Base-T and 10Base-2
- **Connectors** :
  - Two UTP RJ-45 Jacks : MPR, DTE
  - One BNC Connector
- **Data Transfer Rate** : 10Mbps
- **LEDs** : BNC ACT, POWER, TP LINK/ACT
- **Power Requirement** : 1A@+5V
- **Ambient Temperature** : 0° to 70°C
- **Humidity** : 5% to 90%
- **Dimension** : 26mm(H)x70mm(W)x112mm (D)

- **Cable** :
  - UTP : Cat. 3 UTP cable
  - Coaxial : RG-58 A/U thin cable
- **Cable Limitations**
  - UTP cable : up to 100m
  - Coaxial cable : up to 185m per segment
- **Complies with FCC Part 15 Class A & CE Mark**

## 6. Application Note

- ⇒ If ET-509(U) BNC port connecting to the coax thin cable segment is not terminated properly at both end, the UTP segment operation will be seriously jammed by the BNC collision signals. The ET-509(U) POWER LED blinks when collision signal presents.
- ⇒ AC-DC power adapters using different AC input voltages are available for use in different area. Ensure that the AC-DC power adapter conforms to the requirement of your area.

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