X TEND-2/T

10Base-2/T Converter
ETP-20038T Installation Guide

A Network Systems Solution

UNICOM

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This equipment has been tested and found to comply with the limits for a class A device, pursuant to part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This energy and, if not installed and used in accordance with the instructions, may cause harmful interference, in which case, the user will be required to correct the interference at user's own expense.

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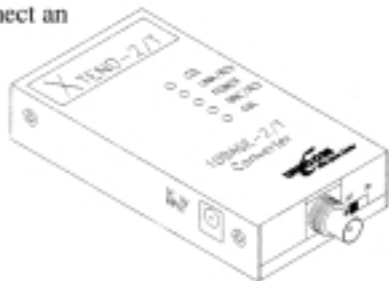
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CONTENTS

OVERVIEW

I. Overview

This booklet is designed as a guide for the easy installation of
XTEND-2/T, UNICOM's 10Base-2 to 10Base-T Converter.

The 10Base-2/T Converter is designed to connect an
existing 10Base-2 Thin Ethernet adapter
card or 10Base-2 network to a 10Base-T
system. The converter works by simply
repeating the signals from 10Base-2 to a
suitable format for transmission over UTP
(Unshielded Twisted Pair) cables to a
10Base-T hub or workstation.

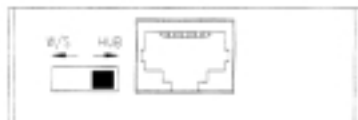## SWITCH

II. Thin Ethernet Terminator Switch

- ON - Set the terminator at the "ON" Position when the converter is placed at the end of the segment. See set-up, page 5.
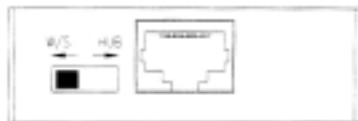
- OFF - Set the terminator at the "OFF" Position when the converter is placed in the middle of the segment. See set-up, page 5.
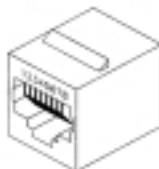
SWITCH

III. Connection Switch

- Hub Connection - Set the connection switch to the Hub position for a Hub connection.

- Workstation Connection - Set the connection switch to the W/S position for a Workstation connection.

```
1=TX+
2=TX-
3=RX+
6=RX-
```

LEDs

IV. LED Indicators

- **COL**   This collision indicator blinks when data collision occurs
              on either 10Base-T or 10Bas-2 Port.

- **LINK/RCV** With this indicator continuously ON, data link is
              operating and converter is ready to receive data.
              When this indicator blinks, data transmission is occurring on
              the 10Base-T port.

- **POWER**   This indicator is continuously "ON" while the converter
              is receiving power from the external power adapter.

- **BNC/RCV**   When this indicator is blinking, data is being received
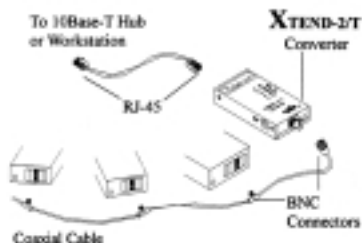   from 10Base-2 Port.

SET-UP

V. Set-Up Procedures - 10Base-2 Connection

Example 1
- Converter is placed *on the end* of a segment.

Procedure
- Set Terminator Switch to "ON" (50ohm)
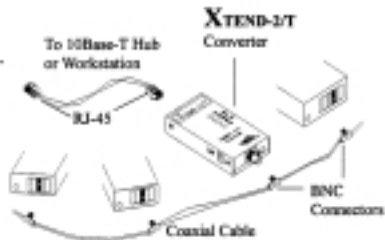- Plug coaxial cable into BNC connector.

Example 2
- Converter is placed *in the middle* of a segment.

Procedure
- Set Terminator Switch to "OFF"
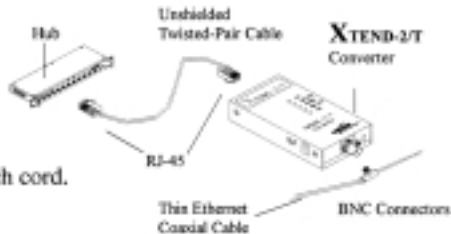- Plug coaxial cable into BNC connector.

SET-UP

V. Set-Up Procedures - 10Base-T Connection

Example 1

- 10Base-T Hub Converter.

Procedure

- Set Terminator Switch to Hub position.
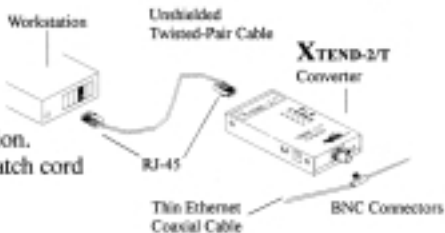- Connect RJ-45 Jack with pin-to-pin patch cord.

Example 2

- 10Base-T Workstation Connection.

Procedure

- Set connection switch to Workstation position.
- Connect the RJ-45 Jack with a pin-to-pin patch cord

TROUBLESHOOTING

VI. Troubleshooting

Symptom	Possible Cause	Solution
Power not "ON"	Bad power connection	Check external power adapter
LINK/RVC not "ON"	- Wrong connection switch - Bad connection	-Check Connection switch setting -Check patch cord
COL LED	Wrong Terminator setting	Check Terminator setting Check coaxial

Technical Hotline 1-800-346-6668

SPECIFICATIONS

VII. Specifications

Standard	IEEE 802.3 10-Base-T, 10Base-2 standards
Interface	BNC connector for thin Ethernet
	RJ-45 Jack for 10Base-T Ethernet
Cable Type	RG-58 coaxial cable for thin Ethernet connection;
	Category 3,4,or 5 UTP cable for 10Base-T UTP cable
Technique	Base band
Standard	IEEE 802.3 10Base-2 and 10Base-T Ethernet
Terminator Switch	Two position (OFF or ON) for BNC
Connection Switch	Two position switch for Hub or Workstation settings
Temperature	0° to 55°C (Standard Operating)
Humidity	10% to 90%(non-condensing)
Dimensions	4.2"x2.2"x0.8"
Power Adapter	9V DC input,1 Amp
EMI	Meets FCC Class A subpart B of Part 15 Requirements

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