

10 Base-2/T

Converter

LCTP-10BT-10B2 Installation Guide

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FCC WARNING

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.

WARRANTY

Due to the confidence of the quality of our products we are now extending our warranty period to 1 year against any defects in workmanship.

Note: All guarantees for this product are in effect providing it is used in the manner it was intended. Damages caused by customer misuse, abuse, and neglect will cause any implied or written guarantees to be null and void.

**See "Terms and Conditions of Sales" for complete warranty*

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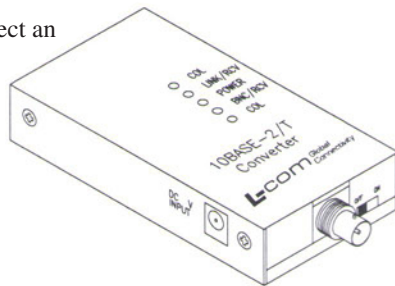
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OVERVIEW

I. Overview

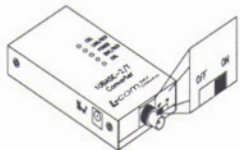
This booklet is designed as a guide for the easy installation of 10Base-2 to 10Base-T Converter.

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.

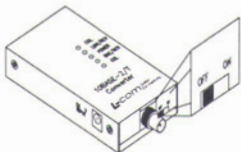


SWITCH

II. Thin Ethernet Terminator Switch



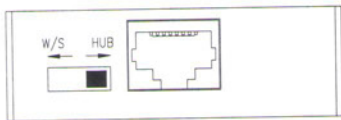
- **ON** - Set the terminator to the "ON" Position when the converter is placed at the end of the segment. See set-up, page 5.



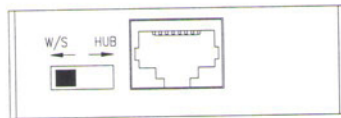
- **OFF** - Set the terminator to the "OFF" Position when the converter is placed in the middle of the segment. See set-up page 5.

SWITCH

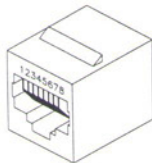
III. Connection Switch



- **Hub Connection** - Set the connection switch to the Hub position 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** Each of the two collision indicators blinks when data collision occurs at either the 10Base-T or 10Base-2 Port.
- **LINK/RCV** With this indicator 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

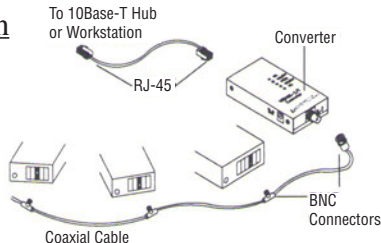
V. Set-Up Procedures - 10Base-2 Connection

Example I

- Converter is placed on the end of a segment.

Procedure

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

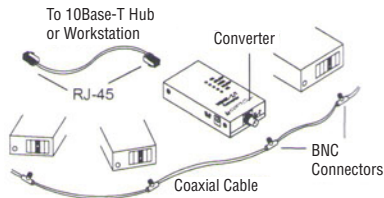


Example 2

- Converter is placed on the middle of a segment.

Procedure

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



SET-UP

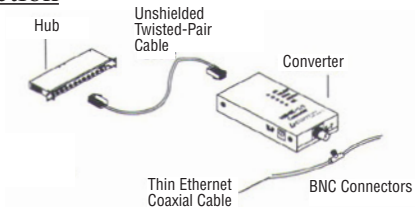
V. Set-Up Procedures - 10Base-T Connection

Example I

- 10Base-T Hub Converter

Procedure

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

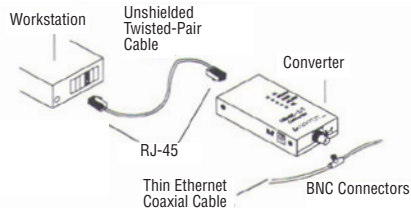


Example 2

- 10Base-T Workstation Connection.

Procedure

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



TROUBLESHOOTING

VI. Troubleshooting

Symptom	Possible	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 termination setting	Check Terminator setting Check coaxial

SPECIFICATIONS

VII. Specifications

Standard Interface	IEEE 802.3 10-Base-T, 10Base-2 standards 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 Standard	Base band IEEE 802.3 10Base-2 and 10 Base-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" x 2.2" x 0.8"
Power Adapter	12V DC input, 1 Amp
EMI	Meets FCC Class A subpart B of Part 15 Requirements