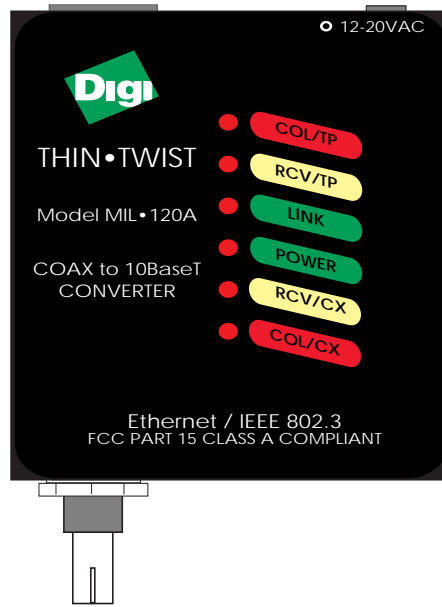




# MIL-120A

## Thin•Twist COAX to 10BASE-T Media Converter



### Installation Guide

This guide includes the following information:

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## Installation

Do the following to install the MIL-120A:

1. Attach a UTP cable from the network to the MIL-120A's RJ-45 port
2. Attach a T-type BNC connector from the network cabling to the BNC connector
3. Connect the power adapter's cord from the power source to the unit

**Note:** Use shielded twisted pair (CAT 5) cabling for CISPR 22 B installation.

## Link Test

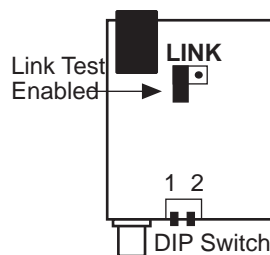
The MIL-120A provides a *Link* test function, which is a 10BASE-T standard. The MIL-120A ships with the *Link* function test “enabled”—only pin one jumpered with a jumper block. This allows the LEDs to illuminate when there are links.

## Disabling Link

To disable the *Link* test:

1. Use a Phillips-head screwdriver to remove the four Phillips-type screws located on the sides of the unit
2. Remove the BNC nut and its washer
3. Slide the housing off, over the BNC connector
4. Locate the two-pin *Link* jumper (Figure 1)
5. Place the jumper block onto both pins
6. Reassemble the unit (reverse steps 1 through 3)

**Note:** The MIL-120A operates in a “StarLAN-10” environment when *Link* is disabled. Only the **Power** and **Link** LEDs illuminate.



**Figure 1.**Link and DIP Switch Locations

## Diagnostic LEDs

- COL/TP:** Collisions are occurring on the 10BASE-T network
- RCV/TP** Unit is receiving packets from the 10BASE-T network
- Link:** There is an active connection to a 10BASE-T hub (or another node) when *Link* is enabled
- Power:** Unit is receiving power
- RCV/CX** Unit is receiving packets from the 10BASE2 network
- COL/CX:** Collisions are occurring on the 10BASE2 network

## Configuration

Next to the COAX cable connector, there is a DIP switch that control the 50 ohm termination resistor (Figure 1). These switches support a variety of configurations. Both switches are shipped in the UP position (default). Other configurations include:

If the MIL-120A is connected to the end of a multi-node segment without a T-connector and terminator, enable the 50 ohm resistor by:

- Placing switch 1: UP and
- Placing switch 2: DOWN

If the MIL-120A is connected to a single-node “without” a T-type connector and terminator on a COAX cable of less than one meter’s length:

- Place both switches (1 and 2) in the DOWN position

**Note:** For this configuration, you do not need a 50 ohm terminator on the COAX segment of the MIL-120A's BNC connector.

## RJ-45 Pinouts

### MDI

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

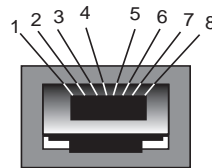


Figure 2. RJ-45 Pinouts

Follow these guidelines when connecting the 10BASE-T Port:

- For a Hub or a Repeater, use a straight-through cable (where the pins are connected 1 to 1, 2 to 2, 3 to 3, and 6 to 6)
- For a Workstation/PC port, use a swap cable (where the pins are connected 1 to 3, 2 to 6, 3 to 1, 6 to 2)

## Legal

### Regulatory Approvals

- FCC Class A
- UL 1950
- CSA 22 No. 950
- EN60950
- CE
  - EN55022 Class B
  - EN50082-1

### Canadian EMI Notice

This Class A digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) - Radio Frequency Interference
- EN50082-1 (IEC801-2, IEC801-3, IEC801-4) - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

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