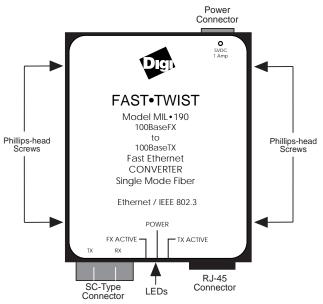


MIL-190C

Fast•Twist Fast Ethernet Converter Single-mode Fiber



Installation Guide

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Introduction

The MIL-190C supports Fast Ethernet in both half- and full-duplex mode. For network budget constraint, the MIL-190C uses 150 nanoseconds (approximately 30 meters of cable) during conversion in each direction.

To maximize the fiber cable distance, use one meter of category 5 (CAT 5) UTP cable when connecting directly to a node (subject to fiber budget of 16 dBm and collision domain restrictions). In full-duplex environments, up to 100 m of CAT 5 UTP and 15Km of 1300 nm single-mode fiber cable can be used:

Launch power: -15dB

• Receive sensitivity: -31dB.

Installation

- 1. Attach a UTP cable from the network to the RJ-45 port. (Use screened UTP cabling for CISPR 22 class B installation.)
- 2. Cross-connect the fiber cables: Attach both fiber cables TX to RX and RX to TX from the fiber network cabling to the SC-type connector on the MIL-190C.
- 3. Apply power to the unit:
 - a. Insert the power adapter's receptacle into the power plug.
 - b. Insert the power adapter into a wall outlet.

Diagnostic LEDs and Conditions Indicated

Table 1:

| LED | Condition | Color |
|-----------|--|--------|
| TX Active | Device is active on the 100BASE-TX UTP | Yellow |
| Power | Device is receiving power | Green |
| RX Active | Device is active on the 100BASE-FX UTP | Yellow |

Note: The "Active" lines indicate that a valid receive signal is sensed. Check the devices connected to each end of the MIL-190C to ensure that Link is present at those points as well.

Model: MIL-190



Configuration

The MIL-190 is configured to support auto-negotiation between half- and full-duplex modes. Jumper JP1 is configured with pins 2-3 "jumpered," which allows auto-negotiation between these two modes.

However, if you are connecting to a device that supports half-duplex only (or full-duplex only), then you should disable jumper JP1. Do the following to disable JP1:

Note: Turn off power "before" attempting to configure the device.

- 1. Locate and remove the four phillips screws located on the side.
- 2. Separate the bottom unit from the top unit.
- 3. Locate the JP1 Jumper and remove the jumper block from pins 2 and 3.
- 4. Place the jumper block onto pins 1 and 2 (See Figure 3).
- 5. Re-assemble the bottom back onto to the top portion.
- 6. Secure the unit with the four phillips-head screws that were removed earlier.

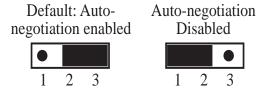
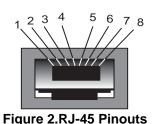


Figure 1.JP1 Configuration Options

RJ-45 Pinouts

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



MDI-X
Pin 1=RX+
Pin 2=RXPin 3=TX+
Pin 6=TX-

Model: MIL-190

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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