Regulatory Approvals
FCC Class A
UL 1950
CSA 22.2 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

Trademarks:
The MiLAN logo and MiLAN Technology are registered trademarks of MiLAN Technology in the United States and/or other countries.

To Contact Technical Support:
For prompt response when calling for service, have the following information ready:
- product serial number
- date of purchase
- vendor or place of purchase
You can reach MiLAN Technology technical support at:
- Email: support@milan.com
- Telephone: +1.408.744.2775
- Fax: +1.408.744.2793

MiAN Technology
1329 Moffett Park Drive
Sunnyvale, CA 94089
United States of America

Telephone: +1.408.744.2775
Fax: +1.408.744.2793

http://www.milan.com
info@milan.com

MIL-185C/MIL-195C
ATM • TWIST
ATM Fiber/UTP Converter
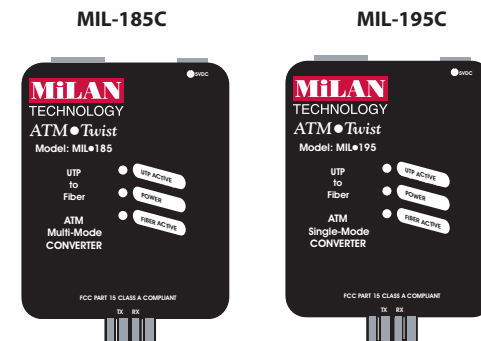
MIL-185C   **MIL-195C**

Installation Guide

This guide includes the following information:

- "Introduction" on page 2

- "Installation" on page 3

- "Configuration Option" on page 4

- "Specifications" on page 7

© Copyright 2002 MiLAN Technology   Printed in the USA   P/N: 90000011 Rev. G

About this Manual

This manual covers both the MIL-185C and the MIL-195C media converters.

The terms "converter" or "device" are used throughout the document to describe either the MIL-185C or the MIL-195C.

Introduction

The MIL-185C and the MIL-195C are compact, physical media converters that allow the user to convert signals between ATM fiber optic cabling in either multi-mode or single-mode, and UTP cabling. Both converters support OC-3 (155Mbps) speeds.

Features

- Fiber budget sufficient to drive 2 km for multi-mode or 15 km for single-mode fiber
- One SC-type single-mode (MIL-195C) or one SC-type multi-mode (MIL-185C) connector
- One shielded RJ-45 UTP connector
- External power supply
- Diagnostic LEDs
- Small form factor

Operating Conditions

Table 1: Recommended Operation Conditions

Parameters	Minimum	Maximum
Operating Temperature	+5° C	40° C
Humidity: non-condensing	10%	95%
Signal Output Load	35 ohm	75 ohm
Supply Voltage	4.75 V	5.25 V

Power Supply

External power is required. The device draws 900 mA at normal operation in room temperature of 25° C.

- Domestic: 110 V AC wall mount power supply.
- International: 220 V AC power supply with IEC receptacle.

Connectors
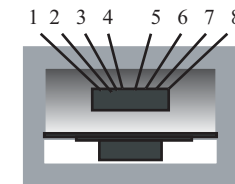
Figure 5. RJ-45 Connector

RJ-45 Pinouts

- Pin 1 = Transmit Data +
- Pin 2 = Transmit Data -
- Pin 7 = Receive Data +
- Pin 8 = Receive Data -

MIL-195C

The MIL-195C converter supports full-duplex ATM Fiber/UTP links. For fiber budget constraints, the MIL-195C has a launch power of -19 db and a receive sensitivity of -30 db (using a 1300 nm class 1 laser). In a full-duplex environment, up to 100m of CAT 5 UTP and 15km single-mode fiber can be used.
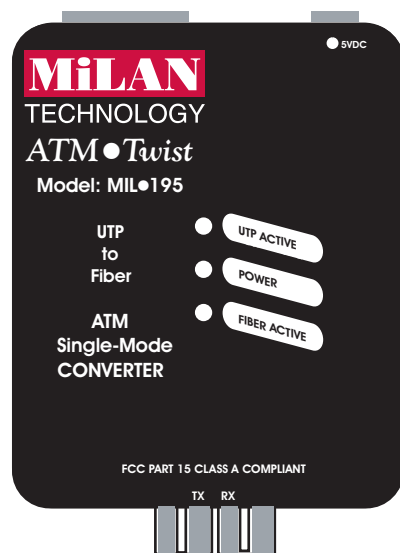
Figure 4. MIL-195C

Specifications

Storage Temperature

- Minimum: -25° C
- Maximum: 75° C

Installation

To install either converter:

1. Attach the CAT 5 UTP cable from the network to the RJ-45 port on the device.

   Note: Use screened CAT 5 UTP cable for CISPR-22 class B installation.

2. Attach the fiber network cable connectors to the connectors marked "RX" (Receive) and "TX" (Transmit).

3. Connect the power receptacle from the wall adapter to the unit.

4. Verify that the power LED illuminates.

5. Verify that both the UTP and the FIBER active LEDs also illuminate when all cables are attached.

Important notice: This device is set to half duplex mode at the factory. If you are experiencing excessive collision errors or CRC errors, then you must force full duplex mode operation on the connecting device(s) before you power up the MiLAN device(s).

Diagnostic LEDs

- UTP ACTIVE: Illuminates when the device receives a valid signal from the device connected to the UTP port

- POWER: This LED illuminates when the device is powered up

- FIBER ACTIVE: Illuminates when the device receives a valid signal from the device connected to the fiber port.

Configuration Options

The following two figures display the typical network configuration for the converters.
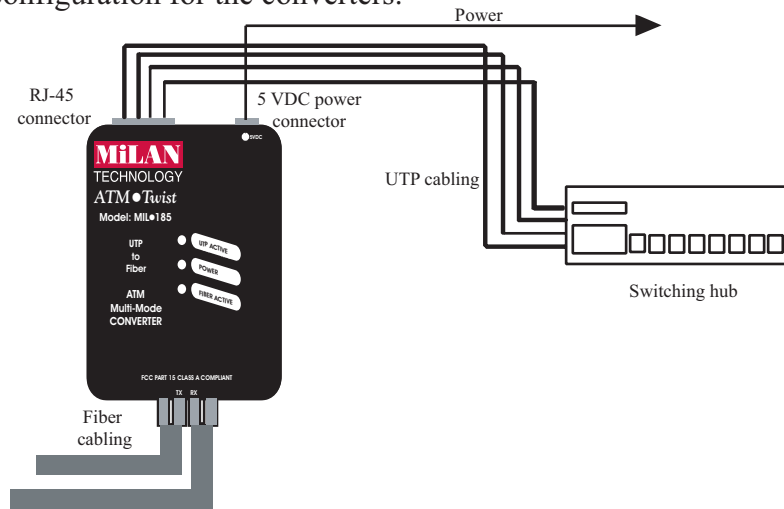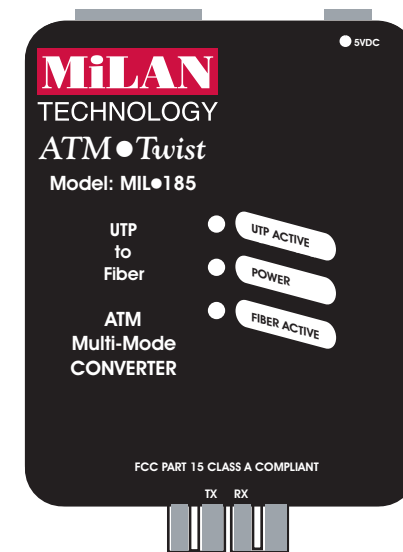

Figure 1. Fiber Network to Switching Hub
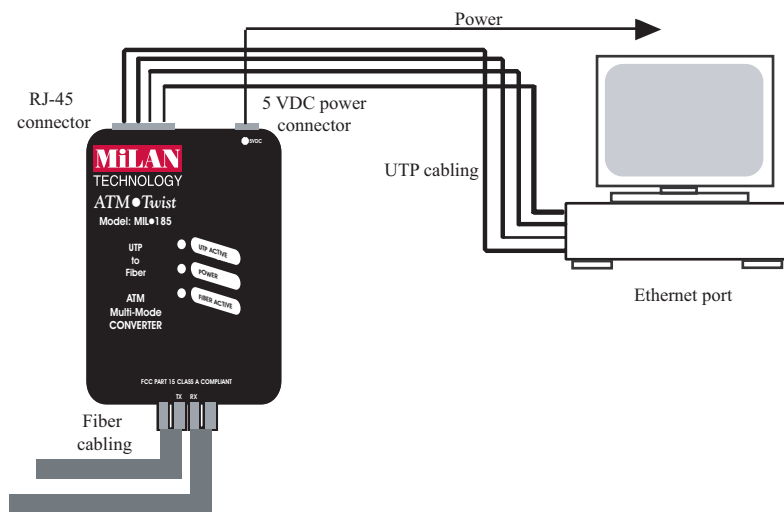
Figure 2. Fiber Network to Remote—Full-Duplex Workstation

Special Notes

MIL-185C

The MIL-185C converter supports full-duplex ATM Fiber/UTP links. For network budget constraints, the MIL-185C has a launch power of -19 db and a receive sensitivity of -31 db (using a 850 nm class 1 laser). In a full-duplex environment, up to 100m of CAT 5 UTP and 2km of multi-mode fiber may be used.

Figure 3. MIL-185C

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com