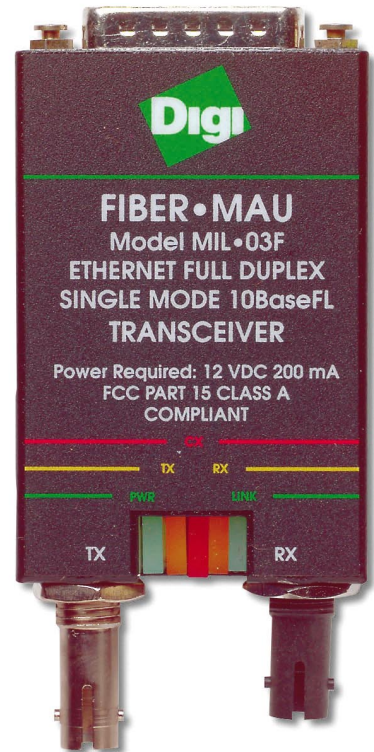
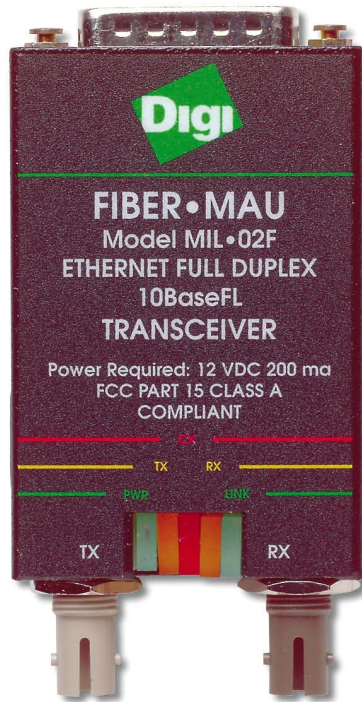


Ethernet MicroTransceivers

MIL-02F Fiber Optic Multi Mode 10BaseFL Transceiver MIL-03F Fiber Optic Single 10BaseFL Transceiver

D A T A
S H E E T

- Detects faults without disrupting network traffic
- Runs 50% cooler than most other fiber optic products
- Selectable half-and full-duplex Ethernet support
- Easier network diagnosis
- Efficient design allows for longer life
- Allows long fiber segments to be connected without optical attenuation
- Units can be tested and diagnosed in remote locations
- 5 year warranty



The Fiber•Mau MIL-02F is a micro Ethernet transceiver designed to allow LANs to communicate at distances of up to two kilometers in either half- or full-duplex modes.

Digi's Fiber•Mau MIL-03F single-mode fiber transceiver for Ethernet networks effectively converts AUI ports to single mode fiber optic cabling. The 03F will support single mode data transfers of up to 15 kilometers in full-duplex mode. It will support distances of up to 2 Km in half-duplex mode as per IEEE standard.

It provides the necessary interface to network workstations, PCs, and other Ethernet devices while eliminating bulky drop cabling. Front-edge LEDs provide

easier diagnosis on rack-mounted hubs or similar equipment.

The unit also features Digi's LinkSentry™ remote sensing technology. LinkSentry enables fault-tolerant transceivers and hubs to detect faulty cables or bad equipment without disrupting network traffic. The Fiber•Mau-FDX also features the standard SQE test, which is externally switch-selectable.

Digi's 90% efficient power circuitry requires only 200 mA @ 12 VDC to power the entire unit. This allows the unit to run cool while still fitting in a compact package.

Can also connect more than 20 transceivers side by side on test equipment without causing heat or power issues.



Features/Specifications

Features

- Converts full- or half-duplex AUI ports to fiber
- LinkSentry™ remote-sensing
- Diagnostic LEDs located on the edge of the unit
- Operates at only 200 mA @ 12 VDC
- Automatically adjusts receive light levels
- Senses and disables link in low light conditions
- Provides loopback capability
- Supports data-transfers of up to 15 kilometers in full-duplex mode

Product Package

- Installation Guide

AUI Connector

- Type: 15-position D-Style male receptacle:

1: Chassis gnd	9: Control B
2: Control A	10: Data Out B
3: Data out A	11: Gnd
4: GND	12: Data in B
5: Data in A	13: Voltage+
6: Voltage rtn	14: Gnd
7: NC	15: NC
8: NC	

GND = Ground
NC = No Connection

10BaseFL

- IEEE 802.3 compliant and FOIRL

ST Style Connectors Fiber Characteristics

Unit	02F	03F
■ Attenuation dB/Km	3.7	.5
■ Diameter um	62.5	8-9
■ Tx-Rx Wavelength nm	800	300
■ Tx Launch Power dB/m	-19	-19
■ RX-Sensitivity dB/m	-34	-36
■ Dynamic Range dB/m	15	16

Maximum Distance

02F		
■ Full-duplex	4 Km	
■ Half-duplex	2 Km	
03F		
■ Full-duplex	15 Km	
■ Half-duplex	2 Km	

Budget Example

To ensure a functional fiber link, the total attenuation loss in the link must be equal to or less than the dynamic range value. The typical loss through interconnects is 1dB. The equation is:
Dynamic Range - (Attenuation * Cable length) - (Number of Interconnects * Loss per Interconnect) ≥ 0
For example, if the total cable length is 2 Km and three interconnects.
15 - (2 * 3.7) - (3 * 1) = 4.6 ≥ 0
dB/m Voltage

LED'S

Provides a complete set of diagnostic LEDs to analyze your network activity at a glance. LEDs light to indicate:

- PWR: Receives power from wall adapter
- RX: Receiving data packets on the fiber port
- CX: Collision detected on fiber port
- TX: Transmitting data packets out the fiber port

Dimensions

Height	Width	Depth	Weight
2.45 in. (6.22cm)	1.6 in. (4.1 cm)	(1.6 cm)	Unit 3.5 oz. (.09 Kg) Shipping 5.0 oz. (.14 Kg)

Physical

The MIL 02F/03F are packaged in lightweight aluminum alloy with a black finish for years of durable, maintenance-free use.

Electrical

- Voltage 12 V
- Amperage 200mA
- Power Rating 2.4 W
- From AUI

Standards Compliance

- UL, CSA, TUV, CISPR-B, FCC A, CE marked

Environmental

- Operating Temperature 0 - 50 C
- Storage Temperature-20 - +70 C
- Humidity (non condensing) 10% - 90%

Digi Service and Support

You can purchase with confidence knowing that Digi is here to support you with expert technical support, the industry's strongest warranty (five full years) and a 30 day money-back guarantee.

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Models and Part Numbers

Fiber MAU Fiber Optic	MIL-02F
Fiber MAU Fiber Optic	MIL-03F

- LINK: Fiber link is intact

