
FIBER INTERFACE MODULE

DESIGNED FOR USE WITH THE 200 SERIES RTU FAMILY, DFS RTU MODULES ARE ASSEMBLED FROM THE HIGHEST QUALITY COMPONENTS AND DESIGNED TO MAXIMIZE USABILITY WHILE MINIMIZING INSTALLATION, MAINTENANCE, AND DOWNTIME.

The FIM is a network-interface platform for use with TAC II telemetry systems. It functions as an interface between a 10 or 10/100 Base-T Ethernet network and up to fifteen (15) function modules of any combination. The FIM's Ethernet media converter, which protects the unit from transient voltage damage, is available in 10 Mbps and 10/100 Mbps speeds and can be ordered with support for either multi-mode or single mode fiber.

When used in a CTU, the FIM uses "serial tunneling" to convert the RIM's serial TTL (radio) data into network data for transmission over fiber optic cable to the Hyper SCADA Server.

When used in a 200 Series RTU, the FIM replaces the RIM; communications with the central site is accomplished via Ethernet. The FIM will interface with up to 15 I/O modules of any combination.



FEATURES AT A GLANCE

- DOS-based network CPU
- 10 Mbps or 10/100 Mbps Ethernet media converter
- 250 addresses per communications link
- Uses standard TCP/IP protocol for communication
- May be polled by multiple HT3 servers
- System polling rate of 2-5 seconds
- Plug-and-play network configuration
- Serial tunneling to RS-232 devices
- 2 configurable RS-232 communication ports
- RS-232 service port and test mode switch for system debugging
- Battery back up during power failure
- Flash memory for field upgrades
- Program updates available from HT3 server
- Card retainer interlock that is bypassable and shareable
- LEDs for power, receive data, transmit data, network link, network traffic, COMM2, microprocessor fault, and test mode
- No on-board adjustments, switches, or straps (self-configuring)

SPECIFICATIONS

Models	FIM001-10: 10 Mbps; multi-mode fiber applications up to 2 km FIM001-10/100: 10/100 Mbps; multi-mode fiber applications up to 2 km FIM001-SM: 10 Mbps; single-mode fiber applications from 2-15 km FIM001-SM-10/100: 10/100 Mbps; single-mode fiber applications from 2-15 km
Board Size	5.25" x 6.88"
Service Port	RS-232 (ASCII)
Circuit Protection	Transorb
Power Requirements	12-14 VDC, 653 mA
Network Interface	10 Base-T or 10/100 Base-T (determined by model selected)
Network Protocol	TCP/IP (UDP Datagram)
Serial Interfaces	2 external serial interfaces with 4 modes of operation. Interfaces are configurable at the connector.
LEDs	Power, receive data, transmit data, network link, network traffic, COMM2, microprocessor fault, test mode

WARRANTY

This product carries a one (1) year return-to-factory warranty against defects in material and workmanship. When installed with factory recommended surge protection, the return-to-factory warranty is extended to three (3) years and is also covered against damage due to lightning and surge. DFS will repair or replace at its option, F.O.B. Melbourne, Florida, any part or parts of this product during the warranty period. A Return Authorization (RA) must be obtained by contacting the DFS Factory Repair Center at 321-259-5009 or by email at rma@dataflowsys.com.