molex®

TelEnable® FDM
(Fax/Data Module)

79529

Small and flexible, Molex's TelEnable FDM transmits serial data and fax protocol over digital wireless networks

The TelEnable FDM is the latest extension of the TelEnable product family. Offering the combined capabilities of FaxEnable™ and EMS-Enable™, the FDM provides a smaller package, reliably transmitting either a digital data stream, a digital fax or a 12-lead ECG. Transmissions are sent via a digital cellular network and can be delivered via a set of standard protocols.
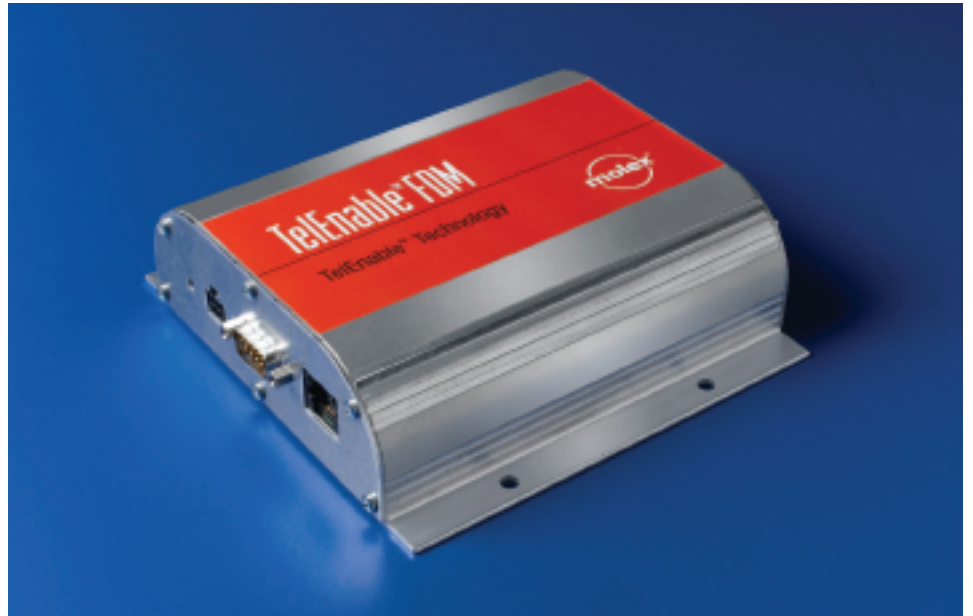
FDM can be powered using a standard 12V AC adapter that connects via a four-position Micro-Fit 3.0™ connector. This power approach can be simpler and more cost-effective for environments where 12V or 120V power is readily available.

The FDM can be configured or customized to fit many data applications, leveraging the TelEnable protocol conversion capabilities. These transmission capabilities are extremely valuable in many market segments, including utilities, railroad, automotive, remote medical and security.

In standard configurations, the FDM can support RS232, PSTN, Class III fax and V.92 modem protocols. New variations are in development. For more information please contact us at TelEnable@molex.com.

Features and Benefits

- "Bag-phone" replacement provides drop-in digital solution for existing analog cellular applications
- Flexible design provides interface for new or evolving protocols, enables compatibility and minimizes user training
- Serial data option eliminates the need for old modem technology
- Higher data transmission speeds help to lower data collection costs
- Reliable data collection reduces re-tries and eliminates manual readings
- Data encryption provides secure transmission and receipt of information

SPECIFICATIONS

Reference Information
Designed In: Millimeters
Communications Interface: RS-232C and Telco
   (Tip/Ring)
Serial Data Rates: Up to 115.2 kbps supported
Packaging: Corrugated carton with partition
Interconnects: 9 position d-sub (male), 4 position
   Micro-Fit 3.0™, RJ-45 with Lightpipes
Outputs for status indicators
Field configurable using touchtone phone and serial
   interface
Analog phone interface standard, including:
   ring-down,dial-tone and DTMF decode

Works with any circuit data-enabled wireless phone,
   including CDMA, PCS, TDMA, GSM/GPRS and IDEN
Protocols Supported: Group III Fax, V.92 Modem

Physical
Dimensions: 145.3mm L x 140.2mm W x 47.8mm H
   (5.7"L x 5.5"W x 1.7"H)
Weight: 0.484 kg (17.1 oz)
Material: FR-4 PCB
Operating Temperature: -20 to +70° C (-4 to +158° F)
Storage Temperature -40 to +85° C (-40 to +185° F)

Electrical
Operating Voltage: 12V DC at 0.5A

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■ Wireless Communications:
- Local or short-range (802.11 or Bluetooth*)
- Cellular/PCS

■ Transportation:
- OEM's (Automobile, Trucks, and RVs)
- Railways

■ EMS:
- Fire (Commissioners and Chiefs)
- Rescue

■ Remote Monitoring:
- Security systems
- Utilities

ORDERING INFORMATION

Order No.	Description	Description
79529-5002	TelEnable FDM	Fax/Data Module supporting remote data collection and faxing applications
79529-5012	TelEnable FDM	Fax/Data Module with universal 12V adapter included
79529-5003	TelEnable FDM for EMS	EMS-Enable module for transmission of a12-lead ECG (For medical applications where FDA requirements apply)
79529-5013	TelEnable FDM for EMS	EMS-Enable Module with universal 12V adapter included

* Bluetooth is a registered trademark of Bluetooth SIG, Inc.

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