

## **FOM II Series - F280xM** **RS-232 Fiber Optic Modem**

### **Product Features**

- RS-232 and MIL-STD-188-C Standards
- Data Rate up to 64 kbps
- Full-Duplex, Half-Duplex or Simplex Transmission
- Transmit up to 14km
- Source or Terminal Timing
- Multiplexing Capable
- LED Indicators for Instant System Monitoring
- Three available Housing Options
- Standalone or Rack Mount



### **Product Description**

The VERSITRON F280xM RS-232 fiber optic modems are designed to provide fiber optic links as interface extenders, modem links, or four channel multiplexers for synchronous, asynchronous or isochronous data. Units are DTE/DCE switch selectable. The F280xM modems can be used over multi-mode or single-mode fiber optic cable. The link is fully transparent in both directions providing full-duplex, half-duplex, or simplex data transmission up to 64 kbps with source or terminal timing. The fiber optic circuit consists of two units connected via fiber optic cable with data rates and electrical signal characteristics that conform to EIA RS-232 and MIL-STD-188C standards. This is accomplished by multiplexing the control signals along with clock and data signals and transmitting the combined signal to the remote unit. At the remote end the combined signal is de-multiplexed and applied to the interface. The F280xM modem is designed to operate with other VERSITRON F280xM, F282xM, M82xx, M62xx, and F28xx fiber optic modems.

### **Product Models**

Model	Function	Data Rate	Connector	Fiber Cable	Wavelength	Max Distance
F2802M	RS-232, MIL-STD-188C Fiber Optic Modem	Up to 64 kbps	ST	MM	850nm	2 km
F2804M	RS-232, MIL-STD-188C Fiber Optic Modem	Up to 64 kbps	ST	MM	1310nm	8 km
F2805M	RS-232, MIL-STD-188C Fiber Optic Modem	Up to 64 kbps	ST	SM	1310nm	14 km

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## RS-232 Fiber Optic Modem

### Technical Specifications

#### General Specifications:

<b>Dimensions</b>	7 x 0.9 x 11.8in / 17.8 x 2.3 x 30cm (WxHxL)
<b>Weight</b>	0.28 kg (10 oz)
<b>Operating Temperature</b>	0° to 50°C (32° to 100°F)
<b>Humidity</b>	Up to 95% relative humidity (non-condensing)
<b>Altitude</b>	Up to 10,000 ft



#### Electrical Interface:

<b>Power Requirements</b>	12VDC, 1Amp
<b>Connector</b>	DB25 Female
<b>Data Signal</b>	EIA RS-232 / MIL-STD-188C asynchronous, synchronous or isochronous
<b>Terminal Timing Data Rate</b>	Up to 64 kbps
<b>Source Timing Data Rate</b>	Up to 64 kbps
<b>DCE/DTE Options</b>	Switch Selectable

#### Accessories:

Model	Description
HF-1	Single Card Enclosure
HF-2SS	2-Slot 19" Rack-Mount Chassis
HF-20A	20-Slot 19" Rack-Mount Chassis
AC300W	Power Supply / System Monitor for HF-20A Chassis
AC300WR	Redundant Power Supply / System Monitor for HF-20A Chassis
PSAC10	110VAC to 12VDC Power Adapter
ADPHF01	Single-Slot Blank Panel for HF-2SS or HF-20A Chassis
ADPHF02	Double-Slot Blank Panel for HF-20A Chassis