

# FOM II Series - F280xA

## RS-232 / MIL-STD-188C Fiber Optic Modem

### Product Features

- RS-232 and MIL-STD-188-C Standards
- Data Rate up to 128 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 Model F280xA products are fiber-optic modems designed to extend an RS-232 signal over fiber. These modems can also be used as a four channel synchronous/asynchronous data multiplexer. These units are DTE/DCE switch selectable and interface with other VERSITRON FOM II series F28xxA Fiber Optic Modems. A Model F280xA link uses fiber optic cable of up to 2 Km for 850nm multimode optics, 8 Km for 1310nm multi-mode optics and 14 Km for 1310nm single-mode optics. The link has a maximum data rate of 128Kbps, providing synchronous, asynchronous or isochronous full-duplex, half-duplex, or simplex data transmission with fully transparent operation. The Model F280xA FOM II modems fully support the interface control signals associated with the EIA/TIA RS-232 or CCITT V.24/V.28, and MIL-STD-188C standards. This is accomplished by multiplexing the control signals along with clock and data signals and transmitting this serialized signal to the remote unit. At the remote unit the signal is de-multiplexed and applied to the interface.

Data rate up to 128Kbps, DCE/DTE Switch Selectable, Terminal/Source Timing Option, and Eight Channel Data Multiplexer (Four in each direction). F280xA Modems have seven indicators: Power (PWR), Alarm (ALM), Transmit Data (TXD), Receive Data (RXD), Transmit Clock (TXC), Receive Clock (RXC), and Loopback (LOOP).

### Product Models

Model	Function	Data Rate	Connector	Fiber Cable	Wavelength	Max Distance
F2802A	RS-232—MIL-STD-188C Fiber Optic Modem	Up to 128 Kbps	ST	MM	850nm	2 km
F2804A	RS-232—MIL-STD-188C Fiber Optic Modem	Up to 128 Kbps	ST	MM	1310nm	8 km
F2805A	RS-232—MIL-STD-188C Fiber Optic Modem	Up to 128 Kbps	ST	SM	1310nm	14 km

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## RS-232 / MIL-STD-188C Fiber Optic Modem

### General Specifications:

Dimensions	7 x 0.84 x 11.6in / 17.8 x 2.1 x 29.5cm (HxWxL)
Weight	0.455 kg (16 oz)
Operating Temperature	0° to 50°C (32° to 122°F)
Storage Temperature	-40° to 70°C (-40° to 158°F)
Humidity	Up to 95% relative humidity (non-condensing)
Altitude	Up to 10,000 ft

### Electrical Interface:

Power Requirements	12VDC, 1.2Amp
Copper Interface Connector	DB25
Format	RS-232 / MIL-STD-188C
Protocol	Asynchronous/Synchronous/Isochronous
Terminal Timing Data Rate	20 - 128 Kbps
Source Timing Data Rate	20 - 76.8 Kbps (Switch Selectable)
DCE/DTE Options	DCE or DTE (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
PSAC08	110VAC to 12VDC Power Adapter
PSAC09	220VAC 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