

# FOM II Series - F282xD

## RS-530 / RS-422 / MIL-STD-188-114A Fiber Optic Modem

### Product Features

- RS-530, RS-422, and MIL-STD-188-114A Standards
- Also supports RS-449 and V.35
- Data Rate up to 5 Mbps
- Full-Duplex or Simplex Transmission
- Source Timing or Terminal Timing
- Multiplexing Capable
- LED Indicators for Instant System Monitoring
- Four available Housing Options
- Standalone or Rack-Mount
- Compatible with **VERSIMUX II** multiplexer platform
- SFP fiber optic module technology



### Product Description

The Model F282xD products are fiber-optic modems designed to extend an RS-530 signal over fiber. These modems can also be used as a four channel synchronous/asynchronous data multiplexer, are DTE/DCE switch selectable, and interface with other VERSITRON FOM II series F28xxD Fiber Optic Modems, as well as VERSITRON M62xxD/M82xxD Fiber Optic MicroModems.

A Model F282xD link uses fiber optic cable of up to 2 Km for 1310nm multi-mode optics, and 20 Km for 1310nm single-mode optics. The link has a maximum data rate of 5 Mbps, providing synchronous, asynchronous or isochronous full-duplex or simplex data transmission with fully transparent operation. The Model F282xD FOM II modems support the interface control signals associated with the EIA/TIA RS-530, RS-422, RS-449, V.35, and MIL-STD-188-114A 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 5 Mbps, DCE/DTE Switch Selectable, Terminal/Source Timing Option, and Eight Channel Data Multiplexer (Four in each direction). F282xD 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
F2822D	RS-530, RS-422, RS-449, V.35, MIL-STD-188-114A Fiber Optic Modem	Up to 5 Mbps	LC	MM	1310nm	2 km
F2825D	RS-530, RS-422, RS-449, V.35, MIL-STD-188-114A Fiber Optic Modem	Up to 5 Mbps	LC	SM	1310nm	20 km*

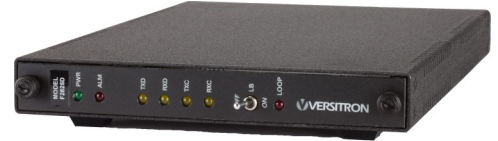
\*Distances to 120 km are available. Please call for details.

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### General Specifications:

Dimensions	11.75 x 7 x .845in / 29.8 x 17.8 x 2.1cm (LxWxH)
Weight	0.28 kg (10 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, 1.0Amp
Copper Interface Connector	DB25, 25-Pin Female
Format	RS-530 / RS-422 / RS-449 / V.35 / MIL-STD-188-114A
Protocol	Asynchronous / Synchronous / Isochronous
Terminal Timing Data Rate	Up to 5 Mbps
Source Timing Data Rate	Up to 1 Mbps
DCE/DTE Options	DCE or DTE (Switch Selectable)

### Interface:

Fiber Interface Connector	LC
Fiber Cable	<b>Multi-Mode:</b> 50/125, 62.5/125 <b>Single-Mode:</b> 8/125, 9/125
Link Margin	11dB into 62.5/125µ Multi-Mode fiber 8dB into 50/125µ Multi-Mode fiber 19dB into 9/125µ Single-Mode fiber

### Accessories:

Model	Description
HF-1	Single Card Enclosure
HF-2SS	2-Slot 19" Rack-Mount Chassis
HF-20A	20-Slot 19" Rack-Mount Chassis
VMX20	20-Slot 19" Rack-Mount <b>VERSIMUX II</b> Chassis
AC300WR	Redundant Power Supply / System Monitor for HF-20A & VMX20 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

