

## **FOM II Series - F282xM** **RS-530 Fiber Optic Modem**

### **Product Features**

- RS-530 and MIL-STD-188-114 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 F282xM RS-530 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 F282xM 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-530 and MIL-STD-188-114 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 F282xM modem is designed to operate with other VERSITRON F282xM, F280xM, M82xx, M62xx, and F28xx fiber optic modems.

### **Product Models**

| Model  | Function                                  | Data Rate     | Connector | Fiber Cable | Wavelength | Max Distance |
|--------|---|---------------|-----------|-------------|------------|--------------|
| F2822M | RS-530, MIL-STD-188-114 Fiber Optic Modem | Up to 64 kbps | ST        | MM          | 850nm      | 2 km         |
| F2824M | RS-530, MIL-STD-188-114 Fiber Optic Modem | Up to 64 kbps | ST        | MM          | 1310nm     | 8 km         |
| F2825M | RS-530, MIL-STD-188-114 Fiber Optic Modem | Up to 64 kbps | ST        | SM          | 1310nm     | 14 km        |

## FOM II Series - F282xM RS-530 Fiber Optic Modem

### Technical Specifications

#### General Specifications:

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



#### Electrical Interface:

|                           |   |
|---------------------------|---|
| Power Requirements        | 12VDC, 1Amp   |
| Connector                 | DB25 Female   |
| Data Signal               | EIA RS-530 / MIL-STD-188-114 asynchronous, synchronous or isochronous |
| Terminal Timing Data Rate | Up to 64 kbps   |
| Source Timing Data Rate   | Up to 64 kbps   |
| DCE/DTE Options           | 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                 |