

## FOM II Series - F241x E1 Fiber Optic Modem

### Product Features

- E1 Standards
- Data Rate of 2.048 Mbps
- Full-Duplex or Simplex Transmission
- Transmit up to 30km
- LED Indicators for Instant System Monitoring
- Three available Housing Options
- Standalone or Rack Mount



### Product Description

The VERSITRON F241x E1 fiber optic modems are designed to provide synchronous full-duplex or simplex data transmission at 2.048 Mbps at distances up to 30 km with fully transparent operation. These modems support G.703, G.824, and G.955 E1 standards. The F241x modems transmit and receive data using a proprietary encoding scheme, and provide high-density bipolar order (HDB3) and alternating mark inversion (AMI) data format conversion. The sampling rate of the data is approximately 12 MHz. The electrical T1 standard signals on copper cable are input via a DB15 female connector and then converted to a fiber optic signal by the modem. LED indicators include Power On (PWR), Alarm (ALM), Transmit Data Present (TXD), Receive Data Present (RXD), Bipolar Violation (BPV), and Loopback Mode Indicator (LOOP).

### Product Models

Model	Function	Data Rate	Connector	Fiber Cable	Wavelength	Max Distance
F2412	E1 Fiber Optic Modem	2.048 Mbps	ST	MM	850nm	3 km
F2414	E1 Fiber Optic Modem	2.048 Mbps	ST	MM	1310nm	15 km
F2415	E1 Fiber Optic Modem	2.048 Mbps	ST	SM	1310nm	30 km

# FOM II Series - F241x

## E1 Fiber Optic Modem

### Technical Specifications

#### General Specifications:

Dimensions	7 x 0.9 x 11.8in / 17.8 x 2.3 x 30cm (WxHxL)
Weight	0.455 kg (16 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
Electrical Connector	DB15 Female
Data Signal	E1 synchronous
Operation	Full-Duplex, Simplex
Error Rate	Better than 10 <sup>-9</sup>
Digital Interface	G.703, G.824, G.955 standards

#### 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