

FOM II Series - F230x DS3 Fiber Optic Modem

Product Features

- BZ3S (Framed or Unframed)
- 44.736 Mbps Data Rate
- Full-Duplex
- Transmit up to 30 km
- LED Indicators for Instant System Monitoring
- Three available Housing Options
- Standalone or Rack Mount



Product Description

VERSITRON F2300 Series FOM II DS3 Fiber Modems provide synchronous full duplex data transmission at 44.736 Mbps at distances up to 30km with fully transparent operation. These modems support ANSI T1.404, AT&T 728A & B, Bellcore TR-NPL-000320, TR-NPL-000424, DSX-3 CB119 and G.703 or G.752 standards. DS3 modems are available with 1300nm multimode (MM) LEDs for distances up to 2km (1.25mi/6,600ft), 1300 single mode (SM) lasers for distances up to 10km (6.25mi/33,000ft), or 1300nm SM lasers for distances up to 30km (18.75mi/99,000ft).

VERSITRON F2300 Series FOM II DS3 Fiber Modems transmit and receive data using a proprietary encoding scheme. The sampling rate of the data signals is approximately 112 MHz. DS3 modems provide bipolar with 3-zero substitution (B3ZS) data format conversion. Electrical DS3-standard signals on coaxial cable are input via 75ohm BNC connectors and converted to fiber optics by the F230x modems, and B3ZS data protocol is decoded. M13 and C-bit parity framed or unframed signals are transmitted and received by the modems. LED status indicators include power on (PWR), alarm (ALM), transmit data present (TXD), system ready for synchronous reception (RXD), and remote loopback mode indicator (LOOP).

Product Models

Model	Function	Data Rate	Connector	Fiber Cable	Wavelength	Max Distance
F2304	DS3 Fiber Optic Modem	44.736 Mbps	ST	MM	850nm	2 km
F2305	DS3 Fiber Optic Modem	44.736 Mbps	SC	SM	1310nm	10 km
F2305-3	DS3 Fiber Optic Modem	44.736 Mbps	SC	SM	1310nm	30 km

FOM II Series - F230x

DS3 Fiber Optic Modem



Technical Specifications

General Specifications:

Dimensions	7 x 0.9 x 12.2in / 17.8 x 2.3 x 31cm (HxWxL)
Weight	0.455 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, 1.2Amp
Electrical Connector	(2) BNC (75 Ohms)
Format	B3ZS (framed or unframed)
Protocol	Synchronous
Data Rate	44.736 Mbps
Operation	Full-Duplex
Error Rate	Better than 10 ⁻⁹
Digital Interface	ANSI T1.404, AT&T 728A & B, BELLCORE TR-NPL-000320, TR-NPL-000424, DSX-3 CB119 AND CCITT G.703 & G.752 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