

# MODEL 2240

## Universal Fiber Optic Modem

Offering more than 15 field interchangeable electrical interfaces, the Model 2240 is a multi-application Fiber Optic Modem supporting Async and Sync, and variety of serial data interfaces, T-1 and E-1.

The 2240 operates asynchronously at speeds from DC (Obps) to 1.024 Mbps and synchronously between DC and 2.048 Mbps. Operating modes and internal clock rates are controlled by an eight position DIP switch located on the front panel. The 2240 has a built-in clock synthesizer which generates dozens of common clock rates. Optional custom oscillators allow generation and selection of special clock rates.

A versatile modem, the 2240 provide multiple secondary data channels that are utilized for alarm and interface handshaking control signals. This gives the 2240 great flexibility support Video Conferencing and Cryptographic applications.

To better fit specific applications, the 2240 is available with standard or long distance optics with distances up to 70 km. It is available as a standalone unit or as a rackmount card. For applications requiring multiple modems, the Model 2201 Rack Assembly holds up to ten 2200 Series Moderns. Standard features of the 2201 Chassis include audio, visual, and dry contact alarms in the event of a power supply failure. The chassis supports redundant power.



### FEATURES:

- Internal/External/Slave Clock Modes
- Front Panel Switch-Selectable Speeds
- Speeds from DC (0 bps) to 2.048 Mbps
- G.703 Compatible T-1/E-1 Interfaces
- Long range optical Extension up to 70 km
- Single Mode and Multimode Optics
- Local and Remote Loopback Diagnostics
- Interchangeable Interfaces
- Pass-through Control Leads
- Standalone and Rackmount Models
- Power Supply Redundancy (in 2201 Chassis)
- 120VAC & 240VAC Power



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### Specifications

#### ● PHYSICAL

##### Dimensions

###### Standalone

2.5" H x 8.5" W x 12.8" D  
(64mm x 216mm x 325mm)

###### Rackmount Module

7.8" H x 1.06" W x 12.5" D  
(198mm x 27mm x 318mm)

##### Weight

###### Standalone

3.6 lb (1.63 kg)

###### Rackmount

0.9 lb (0.41 kg)

#### ● ENCLOSURES

##### Rackmount

2201 Chassis

#### ● OPERATING ENVIRONMENT

##### Standard Models

0° to +50°C (32° to 122° F)  
5% to 90% RH (non-condensing)

#### ● POWER - Standalone

120 VAC, 50/60 Hz, 20W Max.  
240 VAC, 50/60 Hz, 20W Max.

#### ● INTERFACES AND CONNECTORS

##### Fiber Port

ST

##### Data Port

DB-25	RS-232, RS-423, RS-530
DC-37	RS-449, Mil 188, MC-1
DA-15	T-1, E-1
MRC-34	V.35
Term Strip	T-1, E-1
BNC	T-1, E-1, TTL
Twin Ax	Mil-188, RS-422

#### ● BIT ERROR RATE PERFORMANCE

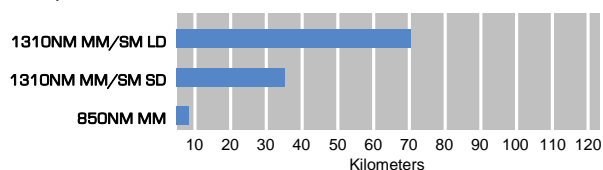
1X10<sup>-10</sup> OR BETTER

#### ● DIAGNOSTIC LEDs

Data - Tx & Rx	User Data Activity
Sync - Local & Report	Link Status
Loop On	Loopback Activated

#### ● OPTICAL DISTANCES

##### 2240 Optics



These are typical distances on SMF-26 fiber. Actual distance is dependant on fiber type, condition and configuration.

Please contact your Canoga Perkins' sales representative for current Fixed and SFP Optics offerings.

#### ● REGULATORY COMPLIANCE

UL 60950 CAN/CSA C.22 No. 60950,  
FCC Part 15B/ICES-003/VCCI Class A  
EN 55022 Class A  
EN 50082

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