

# OM-15B

Fiber Optic T1/E1 Modem

## Applications

- T1 Links
- E1 Links



## Description

The OM-15B fiber optic modem transmits T1 (1.544 Mbaud) or E1 (2.048 Mbaud) signals. The T1 (DS-1) is selectable for AMI or B8ZS encoding, while the E1 is HDB3 encoded.

Operating modes are selected using front panel DIP switches. The modems offer a host of features including dry contact sensing and an RS-232 auxiliary channel.

## Features:

- Multi-mode or singlemode fiber compatible
- Local & remote loop back function
- Electrical input signal loss indicator
- Local & remote optical link indicator
- Alarm contacts for modem/link failure
- Relay contact sense/closure channel
- Standard DB15 interface, optional BNC interface
- Built-in test function
- Twisted pair or coaxial interface
- Meets G.703, G.736 and G.775 standards
- Auxiliary RS232 DC to 6.2kbps channel
- Isolated 24 or 48 Volt Power Supply option

## Specifications

### Optical

Light source .....	850 nm SLED M version
	1300 nm SLED MM version
	1300 nm ELED SM version
Optical connectors .....	ST
Optical sensitivity.....	-50 dBm (10 <sup>-9</sup> BER)
Operating distance	
M version -18dBm launch, 62.5/125 fiber, 3 dB loss/Km .....	10 Km
M version -36dBm launch, 9/125 fiber, 2 dB loss/Km .....	7 Km
MM version -18dBm launch, 62.5/125 fiber, .8 dB loss/Km .....	40 Km
MM version -37dBm launch, 9/125 fiber, .4 dB loss/Km .....	32 Km
SM version -16dBm launch, 9/125 fiber, .4 dB loss/Km .....	85 Km

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## Specifications

### Electrical

T1 Line code.....	Supports both AMI and B8ZS
T1 Data rate .....	1544 Kbps
E1 Line code.....	HDB3
E1 Data rate .....	2,048 Kbps
Data format .....	CCITT G 703
Line Impedance T1 .....	120 ohm, balanced
Line Impedance E1 .....	75 ohm, unbalanced 100 ohm, balanced
Input/Output connector .....	BNC for unbalanced DB15S for balanced
Input/Output levels.....	ITU-T G 703
Line build out.....	Selectable from 0 to 6 dB
Power input.....	12 V to 16V DC
Supply current .....	0.2A max.

### General

Operating temperature.....	-40°C to 74°C
Humidity (RH) .....	10% to 95%
Dimensions (H*W*D) .....	1.5" * 5.5" * 7.5"
Mounting method.....	Desktop, or optional 19" rack mounting

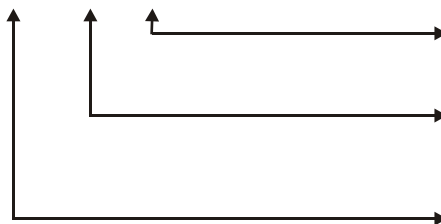
### Diagnostic Capability

Local loop back.....	Front panel switch selectable
Remote loop back. ....	Front panel switch selectable
Built-in test .....	BITS function on front panel

Specifications subject to change without notice.

## Part Numbers

OMI5B - WW - XX - YY



0 = 12 V input redundant supply (standard)

1 = 24 V input redundant supply

2 = 48 V input redundant supply

ST always

M for 850nm multi-mode/singlemode

MM for 1300nm multi-mode/singlemode

SM for 1300nm singlemode optics

**LTIPS-10:** Replacement power adapter (110 V, 60 Hz)

**MP-OM24/44HSM:** Rack mount kit for two OM-15B modems

**SP-OM24/44:** Wall Mount Plate

15/10/03

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