

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 (10-9 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

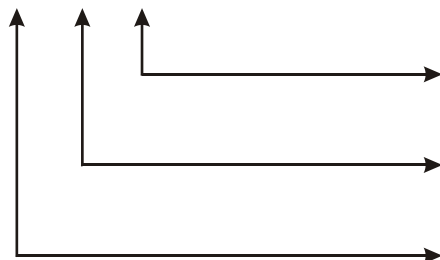
Diagnostic Capability

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

OM15B - 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 = 850nm multi-mode/singlemode
MM = 1300nm multi-mode/singlemode
SM = 1300nm singlemode optics

LTIPS-10	Replacement power adapter (110 V, 60 Hz)
MP-1	Rack mount kit for two OM-15B modems
MP-11	Rack mount kit for one OM-15B modem
SP-1	Wall Mount Plate

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