

OPTEL3

Fiber Optic Telephone/Data Modem

Applications

- Voice Links where security is a priority
- Voice Links over an extended distance
- Voice Links in an EMI noisy environment
- Voice and data transmission



Description

The **OPTEL3** is usually used to extend a two wire telephone line using optical fibers. The **OPTEL3-SL** connects to a *plain old telephone*, and the **OPTEL3-CO** connects to a CO or PBX at the other end of the link. The optical fiber pair which connects the two may be either multimode or singlemode. In addition it has an RS232 data port.

A dedicated voice link (order-wire) can be created by having an OPTEL3-SL at both ends of the link. Lifting the handset at one end causes the other end to ring.

Another version, the OPTEL3-ASL, is an analog two wire modem which transmits and receives analog signals in the 200 to 3400 Hz range. It can be used as a clear channel for PSK, FSK, DTMF, or other signals.

Fiber optic transmission offers information security, electrical isolation, lightning protection, and EMI/RFI immunity. Since the voice is digitally encoded, the quality does not degrade with distance.

Features

- | | |
|---|--|
| Interfaces to a standard analog telephone line | RS232 data channel |
| Can be used as a dedicated link (order-wire) | Relay Sense/Closure channel or Alarm Closure |
| Singlemode or multi-mode fiber operation | Wide temperature range (-40C to 75C) |
| Optical receive power meter in the -LC versions | 5 year warranty |

Specifications

Optical operating distance (typical fiber)

Version	Wave Length	Fiber Size	Launch dBm	Loss dB/km	Distance km
MM	1310	62/125 μ	-18	0.8	18
SM	1310	9/125 μ	-5	0.4	60
		62/125 μ	-5	0.8	30
SME	1550	9/125 μ	-0	0.32	120
*BU	1310	9/125 μ	-14	0.4	20
*BD	1550	9/125 μ	-14	0.4	20

* The BU and BD version are used in pairs.

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Specifications (continued)

Telephone Interface

Input/output connector	RJ-11
Input/output impedance	600 Ohms (North American)
Analog bandwidth	200 Hz to 3.4 KHz
Analog input Level	3.1 Vpp max.(+3 dBm)
Analog insertion gain	-2 dB typical
Idle channel noise C-Message Weighted	< 21 dBmCO
OPTEL3-SL DC voltage.....	48 V nominal
OPTEL3-SL ringing voltage	130 Vpp +/-5% @ 20 Hz

Electrical

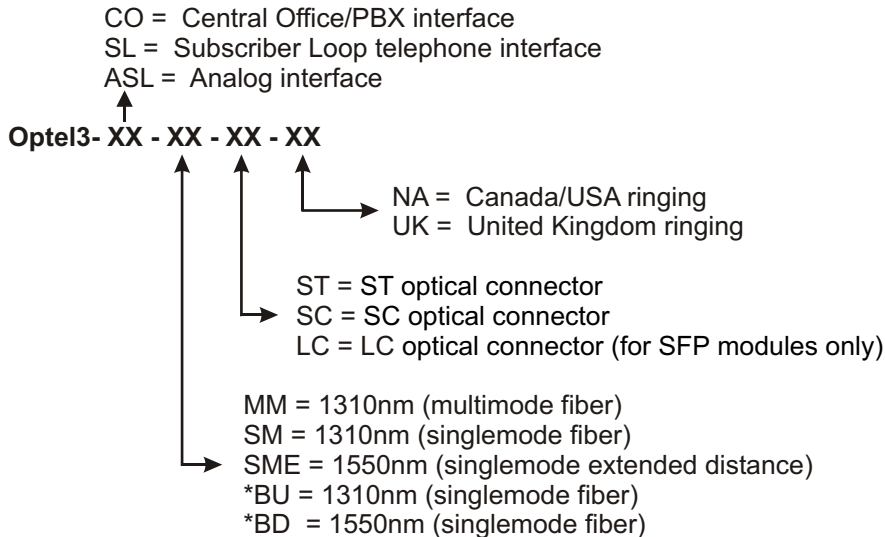
Relay-closure-sense voltage/current	5 Vdc PinB wrt PinA / sources 2 mA
Relay contact voltage/current	200 Vdc or peak AC/ 2 A DC or peak AC
RS232 channel SM and LC versions.....	0-200 kbps asynchronous, 0-100 kbps synchronous
Power source.....	5 VDC power cube, 90-240VAC, 50-60Hz
Input voltage/power.....	4.8 to 6 VDC, < 2.2 Watts

General

Operating temperature	-40°C to 75°C
Dimensions	13 x 2 x 9 cm
Meets RoHS, FCC Part 15, FCC Part 68, EN55022, and EN55024 standards	

Note: Specifications are subject to change without notice.

Part Numbers



*The single fiber version BU must be paired with the BD.

Accessories

MP8	mounting rack for four OPTTEL3 modems
MP8-P2	mounting rack for four OPTTEL3 modems with power supply
SP8	mounting plate for mounting the OPTTEL3 to a flat surface

More information on these and other accessories can be found at www.luxcom.com

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