



RLH Industries, Inc.

## PRODUCT INFORMATION

The leader in rugged fiber optic technology.

✓ Unconditional Lifetime Warranty

2011C-0118

## RLH POTS Fiber Mux Family VOICE AND DATA OVER FIBER OPTICS

The RLH POTS Fiber Mux System provides a comprehensive method of multiplexing up to 30 analog (POTS) channels over a single pair of multimode or single mode fibers, with a range up to 120km/74mi. This compact single rack unit (1RU) system solves the problem of limited fiber availability, reduces equipment space and lowers overall equipment costs.

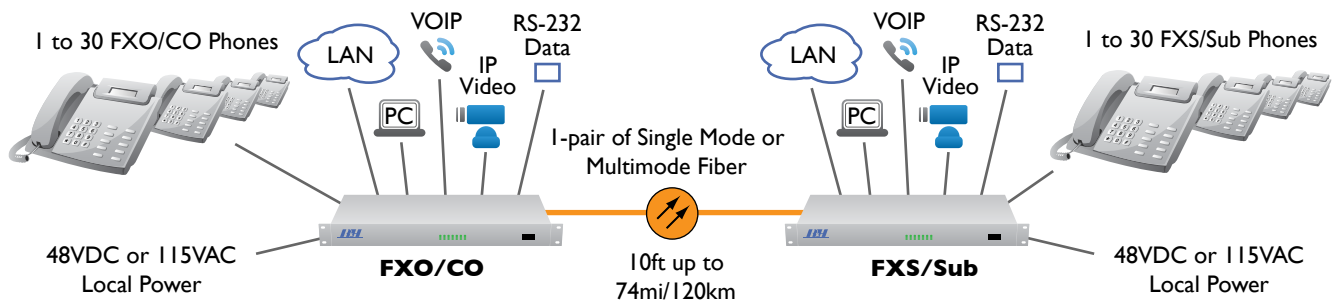
The POTS Mux System is available in capacities of 4, 8, 16 or 30 analog phone lines, and includes four 10/100 Ethernet ports for LAN interconnection, and up to two RS-232 asynchronous data ports (depending on model) as well. Models with E&M are also available.

They come complete with 115VAC power supplies, can accept 48VDC local power, and are covered by our Exclusive Unconditional Lifetime Warranty.



RLH 16 channel POTS Fiber Mux System

### Applications Diagram



### Standard Features

Low cost solution for delivering analog POTS lines over fiber	From 1 to 30 FXO ports for connection to PABX or PSTN
Four integrated 10/100 Base-T Ethernet ports for LAN interconnection	From 1 to 30 FXS ports for connection of individual analog phones or faxes
Ethernet is full/duplex, auto negotiation	4 voice channels are connected to a single RJ-45, using all 8 pins.
Available with ST, SC or FC connectors	8, 16 & 30 line models include asynchronous RS-232 data via RJ-45
Available in Single or Multi-mode fiber, up to 120km fiber range	EIA 19" 1RU rack mountable
Convenient front panel LED Status monitoring	30 channel system includes SNMP management using front port
Uses 115VAC (power supply included) or 48VDC local power	Exclusive Unconditional Lifetime Warranty

### Standard Specifications

<b>FXS/Sub Mux Unit:</b> Ringing voltage: 75V Ringing frequency: 25HZ Powering: 48Vdc or 115AC	<b>FXO/CO Mux Unit:</b> Two line input impedance: 600 Omega (hanging off) Ringing detecting voltage: 35V Powering: 48Vdc or 115AC
Optical wavelength	850nm/1310nm for multi-mode. 1310nm/1550nm for single-mode.
Optical interface	SC/FC/ST
Receiving and dispatching module	>-6dBm
Optical receiver receiving sensitivity	<-36 (BER<10)
Dynamic receiving range	>-30dB
Operating Temperature	-4°F to +176°F (-20°C to +80°C)
Transmitting range	Multi-mode: 1.2mi/2 Km Single-mode: 12.4mi/20Km 24mi/40Km 50mi/80 Km 74m/120Km

**Note:** The FXO and FXS units normally take a few minutes to sync with each other during initial setup or when power is turned OFF then ON.

**Note:** RS-232 ports are included only on 8, 16 and 30 line models.

### ANALOG PHONE FIBER MUX SYSTEM



RLH 16 channel POTS Fiber Mux System back panel

## Ordering Information

### POTS Mux Part Number Matrix

RLH - PM - **XX** **XX** - **X** **X** - **\*\***

#### Fiber Type

MM = Multimode, 2km range, Dual Fiber  
MB = Multimode, 2km range, Bi-Di (SC Only)  
S1 = Single Mode, 20km range, Bi-Di  
S2 = Single Mode, 20km range, Dual Fiber  
S3 = Single Mode, 40km range, Bi-Di  
S4 = Single Mode, 60km range, Dual Fiber  
S5 = Single Mode, 120km range, Dual Fiber

#### Fiber Connector Style

ST = ST Connector  
SC = SC Connector  
FC = FC Connector

#### Model Designation

**Configuration**  
C = FXO/CO side unit  
S = FXS/Sub side unit

#### POTS Line Capacity

1 = 2 POTS lines + 2 E&M lines  
2 = 4 POTS lines + 4 E&M lines  
4 = 4 POTS lines  
8 = 8 POTS lines  
09 = 8 POTS lines + 8 E&M lines  
16 = 16 POTS Lines  
30 = 30 POTS Lines

#### Example: RLH-PM-S2ST-4C-01

RLH 4 channel POTS Mux configured with Single Mode fiber, 20km distance, dual fiber ST connectors, FXO/CO side unit.



RLH Industries, Inc.  
936 N. Main Street, Orange, CA 92867 USA  
T: (714) 532-1672  
F: (714) 532-1885

Please contact your RLH sales representative for pricing and delivery information.

Specifications subject to change without notice.