Fiber Telephone/Analog Extender

- Extend Telephone or 2/4-Wire Analog 600Ω Link with Fiber
- PBX and Key System Compatible
- Voice Bandwidth from 300Hz to 3.4Khz for Toll Quality Sound
- Built-In Dry Contact Relay for External Alarm and Ringer Connection
- 12VDC Power Supply, Optional 24VDC, -48VDC, 125VDC, or 115/230VAC with Power Adapter
- Built-In Power Redundancy
- Rackmount or Standalone
- Hi Temp or Extreme Temp Options
- Tested & Compatible with:





TC1901S Standalone/Wallmount Unit (Telephone set sold separately)



2 X TC1901 (Housed in TCRM195 19" Rackmount Card Cage)

he TC1901 "Quick-Talk" Telephone/Analog Fiber Extender can turn a fiber optic network into a voice network simply by plugging a telephone set into an RJ-11 connector. It is compatible with most 2-wire analog PBXs or Key Systems.

Quick-Talk is typically used to extend phone service or 2/4-Wire analog 600Ω links to remote sites over a fiber optic circuit. For example, a user can extend a secured phone link (for telephone, fax or dial-up modem) to a remote site via the fiber optic up to 80 Km away.

Quick-Talk provides 2-wire FXS (foreign exchange subscriber) on the telephone side with ring down capability and FXO (foreign exchange office) on the PBX side. When both sides are set to FXS, a "hot link" can be established; when one side lifts up the handset, the other side starts ringing.

Available in standalone or rackmount versions, the TC1901 is compatible with all popular types and sizes of fiber optic cable. Diagnostic aids include 19 diagnostic LEDs for indicating power, ring, FXS, FXO, and audio activity.

The optical interface is multimode (850/1300nm) or single mode (1300/1550nm) with ST or SC connectors. A local dry contact relay is also provided for external alarm and ringer connection.

Power is 12VDC, optional 24VDC, -48VDC, 125VDC or 115/230VAC with an external power cube. Power redundancy is standard. Electrical connectors are RJ-11 Female for the telephone set. A local dry contact relay alarm is also provided.

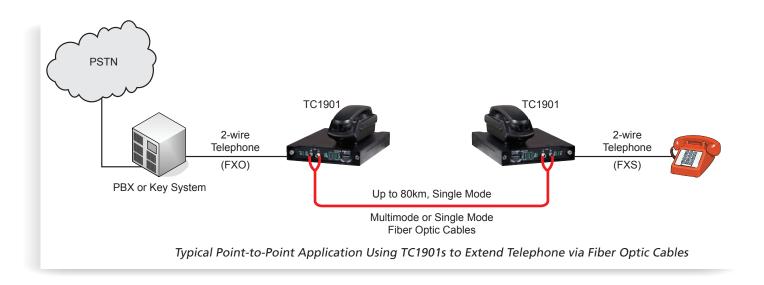


Applications

The TC1901 is often used to extend telephone/analog service in campus networks, power plants, substations, etc or use an existing service data channel to set up a telephone/analog link. It is also used to set up "hot" telephone service via fiber optic networks. Other applications include taking advantage of the inherent benefits of fiber optics to reduce noise/EMI or maximize security/isolation.

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Typical Application Using TC1901s to Establish a "Hot Link" via Fiber Optic Cables

Audio Bandwidth

......300Hz to 3.4Khz

Single Level (2/4-Wire 600Ω)

Input Range.....-1.5 to -40dBm SNR.....32 to 36dB

Transmitter.....LED/ELED

Optical

ReceiverPIN Diode
Wavelength
850nm/1300nm Multimode
1300nm/1550nm Single Mode
Fiber Optic Connectors
ST, Optional FC**
Loss Budget* - 850/1300/1550nm
Multimode @62.5/125μm15dB

Electrical

Phone Connector.......RJ11 Female Ring Voltage.....55Vrms at 25Hz (Depending on the ringing load) FXO Impedance.....600 Ω FXS Impedance.....600 Ω

Single Mode @9/125µm.....20dB

Visual Indicators

Tx and Rx volume, Local off-hook, Remote off-hook, FXO, FXS, Ring, Optic Rx, Electric Rx, VccA, VccB, PWR A, PWR B

Alarm/Ring

Dry Contact.....Normal OPEN

Power

Standard......12VDC @500mA Optional....24VDC, -48VDC, 125VDC or115/230VAC with power cube

Temperature

Operating	g	–10°C	to	50°C		
Hi-Temp	(optional)	–20°C	to	70°C		
Extreme	(optional)	–40°C	to	80°C		
Storage		–40°C	to	90°C		
Humidity95% non-condensing						

Physical (Standalone Unit)

Height	(3.53	cm)	1.39"
Width	(18.14	cm)	7.2"
Depth	(24.89	cm)	9.8"
Weight	(907 g	jm) 2	.0 lbs

^{*}Contact factory for higher requirements





ISO 9001 QMI-SAI Global #1045959

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^{**}FC is not available @850nm Multimode