

"Quick-Talk"™ Fiber Telephone Extender

Model
TC1903

- Extend Telephone 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 or 115/230VAC with Power Adapter
- Built-In Power Redundancy
- Rackmount or Standalone
- Hi Temp or Extreme Temp Options
- Tested & Compatible with:



TC1903S Standalone/Wallmount Unit
(optional one fiber bi-directional optic shown)



The 1903 "Quick-Talk" Telephone 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 dial-up phone service to remote sites over a fiber optic circuit. For example, a user can extend a secured phone link 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 TC1903 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. An optional one fiber bi-directional optic is available. A local dry contact relay is also provided for external alarm and ringer connection.

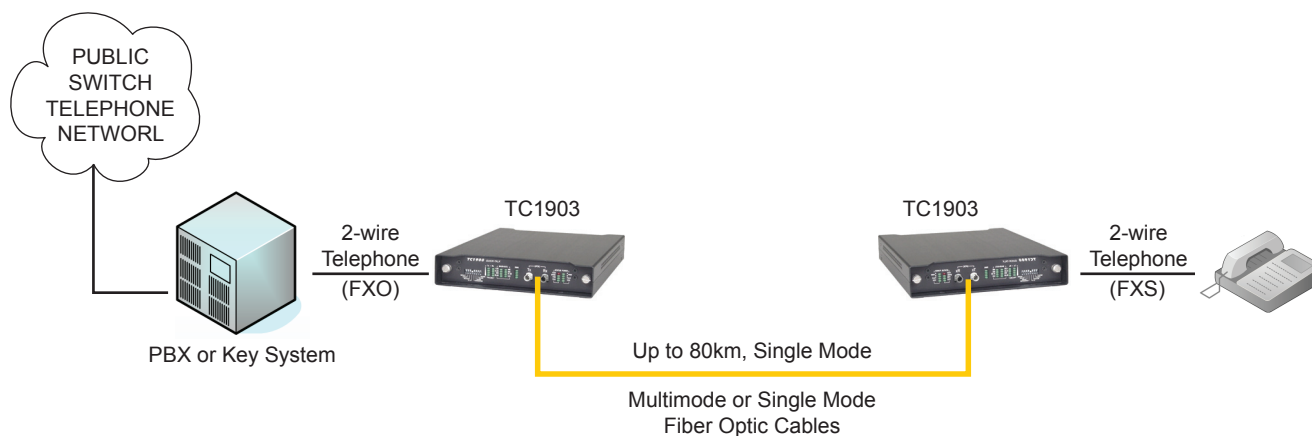
Power is 12VDC, optional 24VDC or 115/230VAC with an external power cube. Power redundancy is standard. Electrical connectors are RJ-11 Female for the telephone set. A local dry contact relay alarm is also provided.



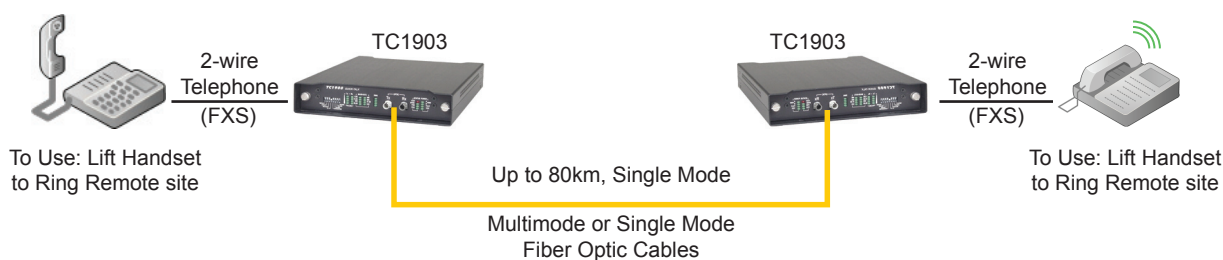
Applications

The TC1903 is often used to extend telephone service in campus networks, power plants, substations, etc or use an existing service data channel to set up a telephone 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.

TC Communications, Inc.
17881 Cartwright Rd. Irvine, CA 92614 U.S.A.
Tel: (949) 852-1972, Fax: (949) 852-1948
Sales: (800) 569-4736
Web Site: www.tccomm.com
E-mail: sales@tccomm.com



Typical Point-to-Point Application Using TC1903s to Extend Telephone via Fiber Optic Cables



Typical Application Using TC1903s to Establish a "Hot Link" via Fiber Optic Cables

Audio Bandwidth

.....300Hz to 3.4KHz

Optical

Transmitter.....LED/ELED

ReceiverPIN Diode

Wavelength

.....850nm/1300nm Multimode

.....1300nm/1550nm Single Mode

Fiber Optic Connectors

.....ST or SC

Loss Budget* - 850/1300/1550nm

Multimode @62.5/125µm15dB

Single Mode @9/125µm.....20dB

Electrical

Phone ConnectorRJ11 Female

Ring Voltage80Vrms at 20Hz

(Depending on the ringing load)

FXO Input Impedance600 Ω

FXS Output Impedance.....600 Ω

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

Dry Contact.....Normal OPEN

Power

Standard12VDC @500mA

Optional.....24VDC or

.....115/230VAC with power cube

Temperature

Operating -10°C to 50°C

Optional..... -20°C to 70°C

Storage..... -40°C to 90°C

Humidity.....95% non-condensing

Physical

Height.....(3.53 cm) 1.39"

Width.....(18.13 cm) 7.14"

Depth.....(16.59 cm) 6.53"

Weight.....(544 gm) 1.2 lbs

*Contact factory for higher requirements



ISO 9001
QMI-SAI Global
#1045959

TC Communications, Inc.
17881 Cartwright Road
Irvine, CA 92614 U.S.A.
Factory Tel: (949) 852-1972
Fax: (949) 852-1948

Sales Office
U.S.A. Domestic International
(800) 569-4736 (949) 852-1973

Web Site: www.tccomm.com
E-mail: sales@tccomm.com