

"Quick-Talk"TM RS-232 or Fiber Telephone Extender

Model
TC1900

- Extend Telephone Link with Fiber or Async RS-232
- 9.6 kbps or 19.2 kbps Async Baud Rates (Future release - up to 64Kbps)
- PBX and Key System Compatible, FXO/FXS Selectable
- 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 or 115/230VAC with Power Adapter
- Built-In Power Redundancy
- Rackmount or Standalone



The TC1900 "Quick-Talk" Telephone Extender can turn a fiber optic network or RS-232 circuit 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 or RS-232 circuit. For example, a user can extend a secured phone link to a remote site via an existing satellite or microwave RS-232 data connection. With the optional fiber optic front end, Quick-Talk can extend a phone line 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 TC1900 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.

Quick-Talk is available with RS-232 or optical interfaces. The optical interface is available in multimode (850/1300nm) or single mode (1300/1550nm) versions, with ST or FC connectors. A local dry contact relay is also provided for external alarm and ringer connection.

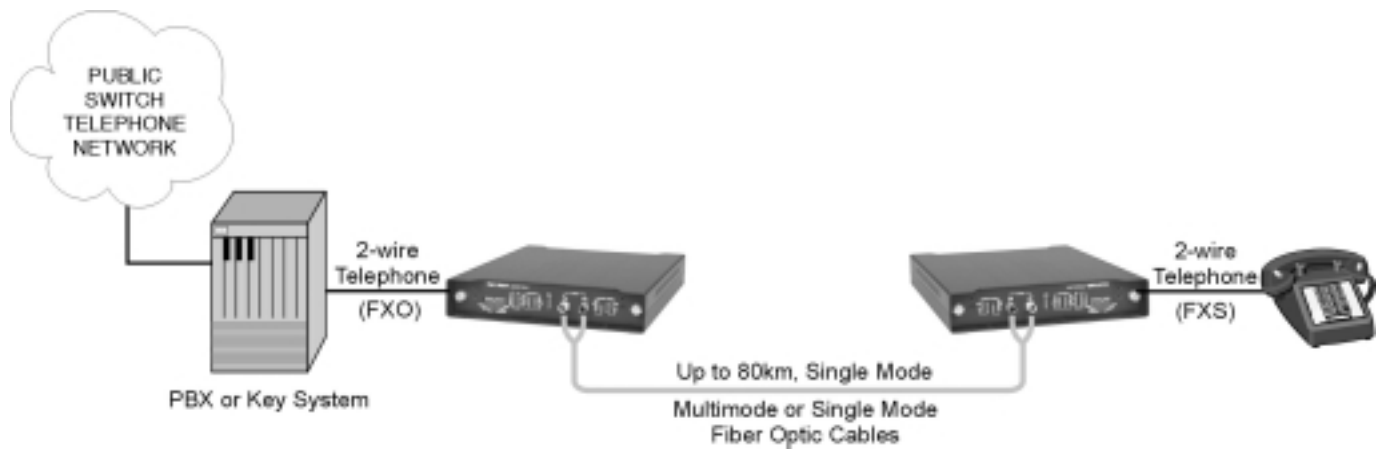
Power is 12VDC or 115/230VAC with an external power cube. Power options include 24VDC or -48VDC. Power redundancy is standard. Electrical connectors are RJ-11 Female for the telephone set, DB9 female for RS-232. A local dry contact relay alarm is also provided.



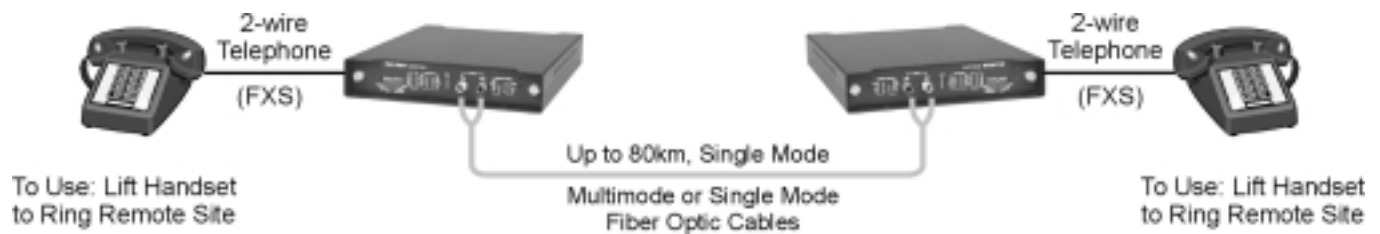
Applications

The TC1900 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 existing RS-232 links on satellite, fiber optic or microwave networks. Other applications include using the inherent benefits of fiber optics to reduce noise/EMI or maximize security/isolation.

TC Communications, Inc.
17575 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: info@tccomm.com



Typical Point-to-Point Application Using TC1900 to Extend Telephone via Fiber Optic Cables



Typical Application Using TC1900 to Establish a "Hot Link" via Fiber Optic Cables

Audio Bandwidth
.....300Hz to 3.4KHz

Optical (optional)
TransmitterLED/ELED
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
Single Mode @9/125µm15dB

Electrical
Phone ConnectorRJ11 Female
RS-232DB9 Female
Baud Rate9.6k, 19.2k
Future Release.....
...32k, 38.4k, 48k, 56k, 57.6k, 64k

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
Optional24VDC, -48VDC, or
.....115/230VAC with power cube

Temperature
Operating -10°C to 50°C
Storage..... -40°C to 90°C
Humidity.....95% non-condensing

Physical (Standalone Unit)
Height(3.53 cm) 1.4"
Width(18.14 cm) 7.2"
Depth(24.89 cm) 9.8"
Weight.....(907 gm) 2.0 lbs

*Contact factory for higher requirements



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Sales Office
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International: (949) 852-1973

Web Site: www.tccomm.com
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