Telephone to 10Base-T Ethernet Extender

- Extends Telephone Link via 10 Base-T Ethernet Connection

- Web-Based Configuration Interface

- PBX & Key System (POTS) Compatible

- Voice Bandwidth from 300Hz to 3.4KHz for Toll Quality Sound

- 18 LEDs for Diagnostics & Status Monitoring

- Built-in Dry Contact Relay for External Alarm and Ringer Connection

- 12VDC, Optional 24VDC, -48VDC or 115/230VAC with Power Adapter

- Hardened Temperature Version (optional)

TC1910S Standalone Unit (Shown with telephone set, sold separately)

TC1910S (rear view)

The TC1910 Ethernet Telephone Extender enables telephone service over a LAN via 10Base-T Ethernet connections. It has a builtin Codec that digitizes voice and converts to packets for transmission between local and remote TC1910s with designated IP addresses. It is compatible with PBX and Key Systems (POTS).

LAN connections can be made by most types of Full Duplex Ethernet devices, including switches, routers, bridges, transceivers, etc. A Web-based Configuration user interface is provided to view network settings or change IP addresses from the factory default.

Phone connection is automatic upon power-up or when network interruption is restored. Depending on network traffic, multiple pairs of TC1910s can be used to set up individual point-to-point telephone links. A high temperature version (-20°C to 70°C), Model TC1910T, is available for harsh environments.

The TC1910 provides Toll Quality sound within voice bandwidths from 300Hz to 3.4KHz. Two types of voice applications are supported: one, connecting to a PBX for outside telephone service; two, setting up a "hot link" point-to-point connection, e.g. between two work stations, within a LAN. Two-wire FXS (foreign exchange subscriber) is provided on the telephone side with ring down capability and FXO (foreign exchange office) on the PBX side.

Eighteen LEDs for network status, phone status, power and volume are provided to enhance status monitoring and diagnostics. Dry contacts for external alarm and ringer are standard.
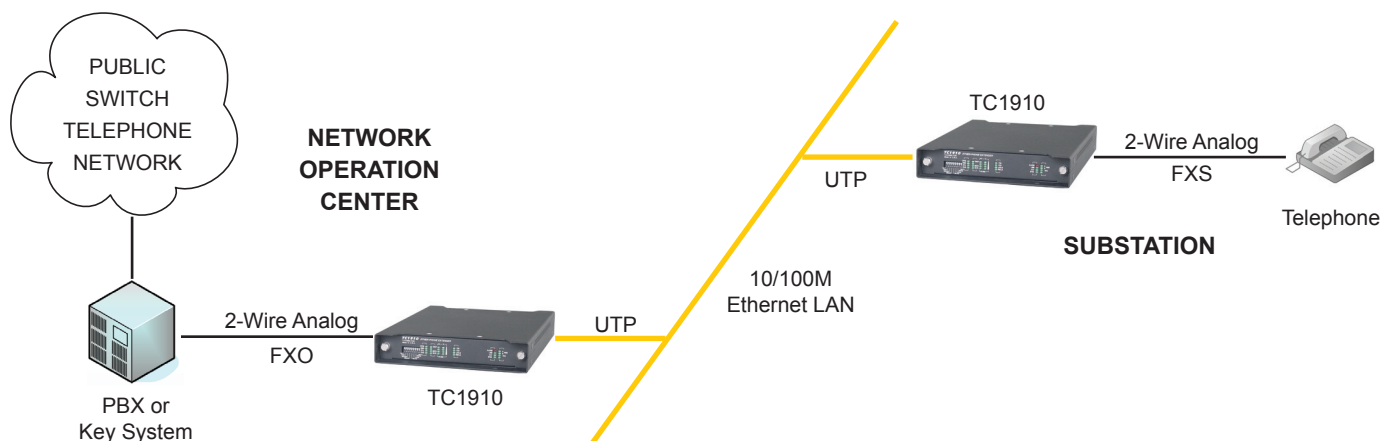
The TC1910 is available in standalone (TC1910S) or rackmount (TC1910R) versions. Power is 12VDC, or 115/230VAC with an external power cube. 24VDC and -48VDC power is optional. Power redundancy is standard. Phone connectors are RJ-11 Female and 10Base-T connectors are RJ-45 Female.

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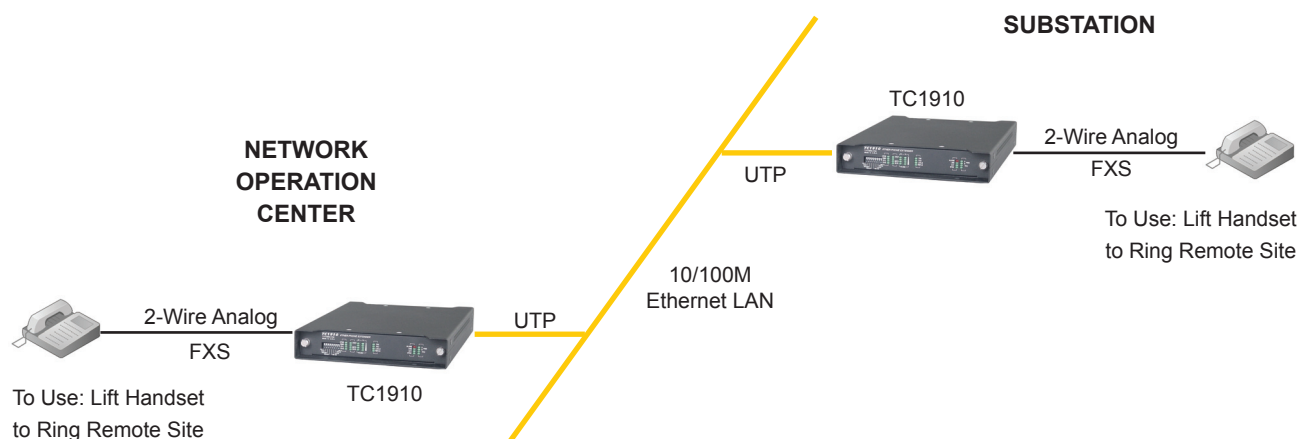### FIBER OPTIC CONNECTIVITY

Applications

The TC1910 is intended to provide flexible point-to-point telephone service via Ethernet Networks. It is often used by maintenance or service personnel in Campus, Traffic Control, or Utility Substation Networks.

Typical Application Using TC1910s to Extend Telephone Service via an Ethernet Network in a Substation Environment

Typical Application Using Two TC1910s to Provide a "Hot Link" Voice Service via an Ethernet Network

Audio Bandwidth

...............................300Hz to 3.4Khz

Electrical

Phone Connector...........RJ11 Female
Ring Voltage ....80Vrms at 20Hz**
(Depending on the ringing load)
FXO Input Impedance.......600 Ohm**
FXS Output Impedance.... 600 Ohm**
Ethernet (10Base-T)......RJ45 Female
Rate.......................................10Mbps

Visual Indicators

Off Hook, Ring, Master/Slave, Hot
Link, Link Status, Tx and Rx volume,
DHCP, off-hook, FXO, FXS,
Alarm, Link, Sync, Activity, VccA,
VccB, PWR A, PWR B

Alarm/Ring

Dry Contact.................Normal OPEN

Power

Standard ....12VDC @500mA
Optional.....................24VDC, -48VDC or
................115/230VAC with power cube

Temperature

Operating........................ -10°C to 50°C
Hi-Temp (Optional).......... -20°C to 70°C*
Storage .... -40°C to 90°C
Humidity ....95% non-condensing

Physical (Standalone Unit)

Height............................(3.53 cm) 1.39"
Width............................(18.13 cm) 7.14"
Depth...........................(24.89 cm) 9.80"
Weight..........................(907 gm) 2.0 lbs

*Contact factory for higher requirements

**For USA/CANADA. (will vary depeding on country)

TC COMMUNICATIONS®
FIBER OPTIC CONNECTIVITY

Certified System ™

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

Note - Information contained in this data sheet is subject to change without prior notice.