

Telephone to 10/100Base-T Ethernet Extender

TC1920

- Extends telephone link over Ethernet
- Built-in address book (up to 100 entries) for dialing without IP PBX
- Group dialing up to 10 groups and up to 20 numbers per group
- Heartbeat feature for peer-to-peer link monitoring
- Compatible with G.711 u/A-Law (64K), G.726 (32K), G.726 (16K) and G.729A (8K)
- Compatible with security TLS and SRTP, SIP and analog POTS lines
- Works over Wi-Fi link
- Works with fax (T.38 or pass-through)
- Web-based configuration
- 28 LEDs for diagnostics and status monitoring
- Built-in dry contact relay for external alarm and ringer connection
- FXS (TC1920-1)
- Two Ethernet RJ45 ports (10/100M)
- 12VDC, optional 24VDC, -48VDC, 125VDC or 115/230VAC with power adapter
- Hardened temperature version (optional)



TC1920S Standalone Unit Front



TC1920S Standalone Unit Rear

The TC1920 Ethernet Telephone Extender enables telephone service over a LAN via 10/100Base-T Ethernet connections. It has built-in codecs that digitize voice and converts to packets for transmission between local and remote TC1920s 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 and transceivers. A web-based management user interface is provided to view network settings or change IP addresses from the factory default.

The TC1920 provides toll quality sound within voice bandwidths from 300Hz to 3.4KHz. Phone connectors are RJ-11 female and 10/100Base-T connectors are RJ-45 female. A 2-wire FXS (foreign exchange subscriber) is provided on the telephone side.

Approximately 28 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 TC1920 is available in standalone (TC1920S) or rack mount (TC1920R) versions. Power is 12VDC or 115/230VAC with an external power cube. 24VDC, -48VDC, or 125VDC power is optional. Power redundancy is standard. A high temperature version (-20°C to 70°C), TC1920T, is available for harsh environments.



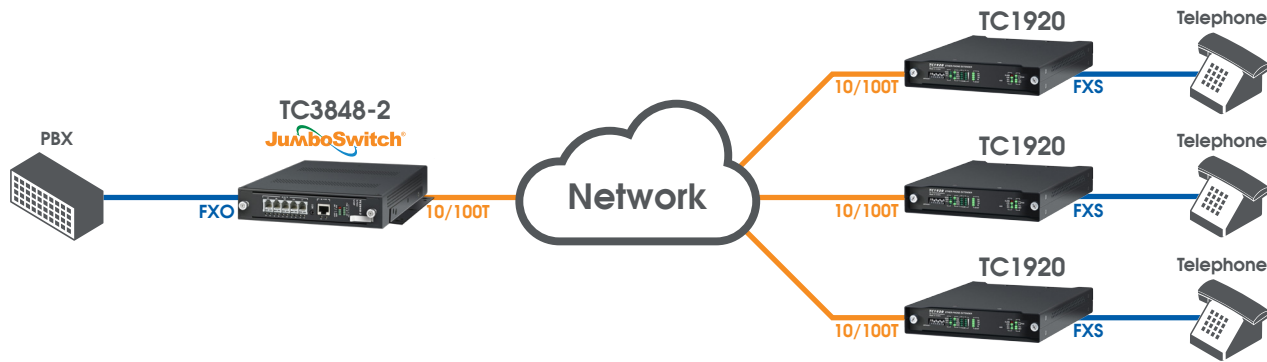
Applications

The TC1920 is intended to provide reliable point-to-point or point-to-multipoint telephone/analog service via Ethernet networks. It is often used as critical phone links in campus environments, such as:

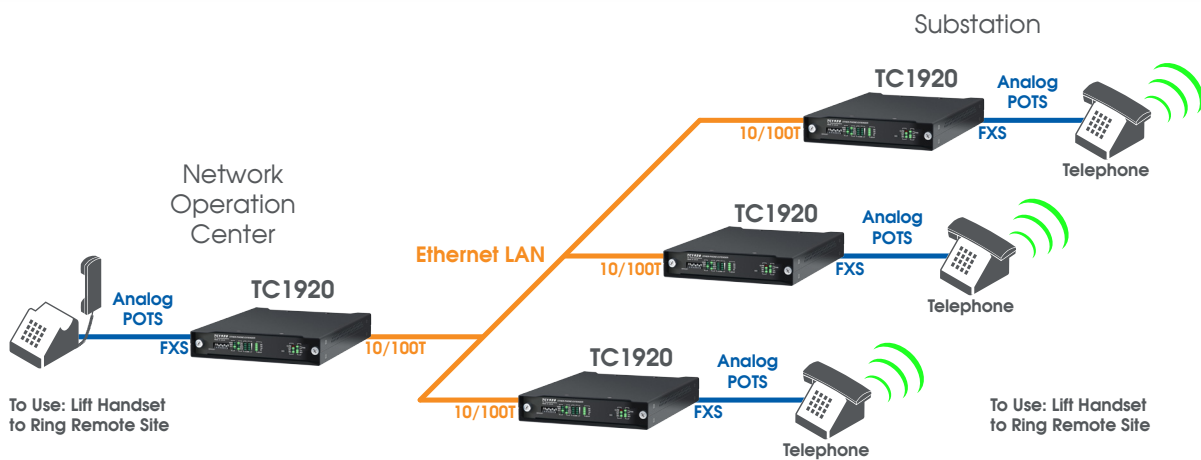
1. Utility substation networks
2. Airport service stations
3. Railside maintenance stations
4. Highway roadside phones
5. Military compounds
6. Parking lot entrances

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

Web Site: tcomm.com



Typical Application Using TC1920s to Extend Telephone Service via an Ethernet Network in a Substation Environment



Typical Application Using TC1920s to Provide Hotlink Service to Multiple Remote Locations

Audio Bandwidth

.....300Hz to 3.4Khz

Electrical

Phone Connector..... RJ-11 Female
 Ring Voltage..... 55Vrms at 25Hz
 (Depending on the ringing load)
 FXS Impedance 600 Ohm
 Ethernet..... 10/100Base-T
 Ethernet Connector..... RJ-45 Female
 Rate..... 10/100Mbps

Visual Indicators

HOOK, RING, Hotlink (HT-L),
 FXS, FXO, Slave (SLVE), Master (MSTR),
 TX & RX Volume,
 Compression Rate (CP-R),
 ALARM, LINK, BP1, BP2,
 PWR A, PWR B, Vcc, RDY

Alarm/Ring

Dry Contact..... Normal OPEN

Power

Standard 12VDC @500mA
 Optional..24VDC, -48VDC, 125VDC 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(3.15cm) 1.24"
 Width(17.68 cm) 6.96"
 Depth(22.61 cm) 8.90"
 Weight(0.43 kg) 0.95 lbs



SAI GLOBAL
 ISO 9001
 Quality

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

U.S.A. Domestic International
 (949) 852-1973

Web Site: tccomm.com

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