

# Emergency Phone Line Bridge

## TC8938 Series

- **One Master Port, FXS Standard (TC8938-1), FXO Optional (TC8938-2) & Up to 7 Extension Ports**
- **Two Master Ports, FXS Only (TC8938-3), Up to 6 Extension Ports**
- **Voice Bandwidth from 300Hz to 3.4Khz for Toll Quality Sound**
- **12VDC Power Supply, Optional 24VDC, -48VDC, 125VDC or 115/230VAC\***
- **Built-In Power Redundancy**
- **Rackmount or Standalone**
- **Hi Temp or Extreme Temp Options**



TC8938S Standalone/Wallmount Unit



TC8938R (Housed in TCRM195 19" Rackmount Card Cage)

**D**esigned specifically for emergency phone line applications, the TC8938-1/-2 receives and broadcasts a 2-wire analog POTS signal to up to 7 remote phones. The initiator of the call can have a conversation with up to 7 remote users on the same phone line.

The TC8938-1/-2 provides one master FXS or FXO port for initiating the emergency phone call. Up to 7 FXS extension ports connect to a 2-wire analog phone. Each port provides its own ring generator that rings a conventional 2-wire analog phone.

TC8938-3 provides two master FXS ports and up to 6 extension ports. Both master ports can initiate emergency calls, offering customers redundancy capability.

Diagnostic LEDs for Tx and Rx volume are included for each channel. Additional LEDs are provided for Alarm, Power A, Power B, and Vcc. Connectors are RJ-11 Female. Power is 12VDC standard, with optional 24VDC, -48VDC, 125VDC or 115/230VAC for the Rackmount unit, or 115/230VAC with power adapter for the Wallmount unit.

The TC8938R PC Card version requires the TCRM191 or TCRM195 19" Rackmount Card Cage. High and extreme temperature versions (-20°C to 70°C, -40°C to 80°C), are available for harsh environments.



### Applications

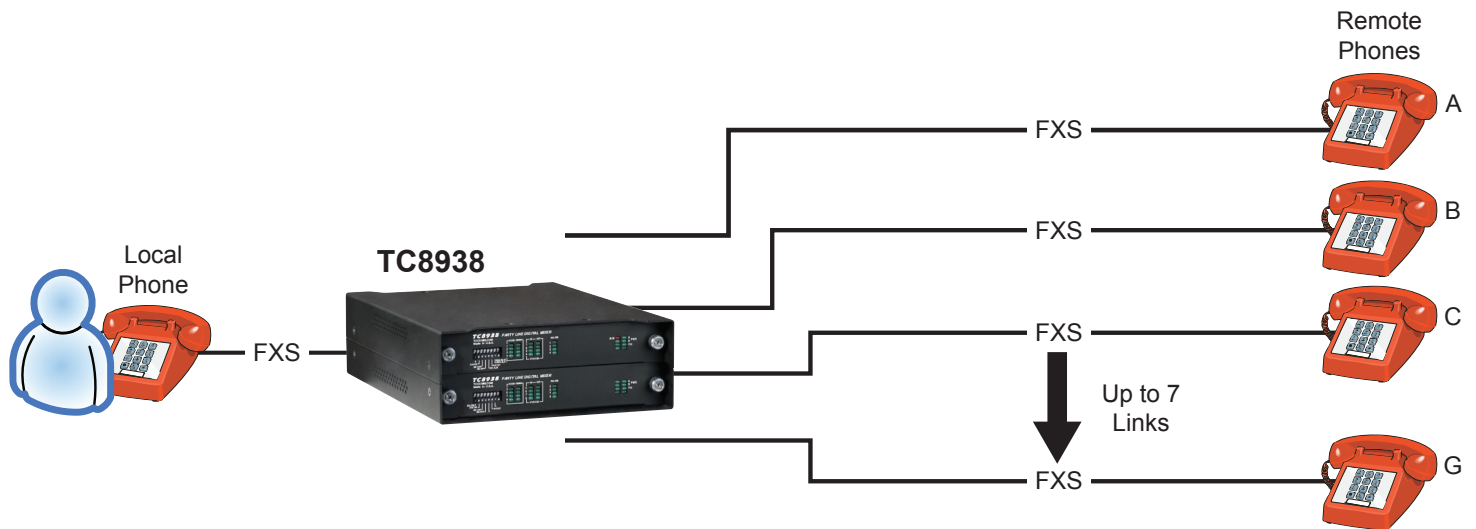
The TC8938 is used in emergency party-line network applications. Up to 8 users can be linked to one party-line conversation.

For example, if an emergency at an airport occurs picking up the master phone in the control tower will automatically ring all remote telephone extensions. Remote extensions can be located at local police, fire, ambulance and health facility locations. PBX is not required.

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\*115/230VAC for Rackmount unit  
\*115/230VAC with power adapter for Wallmount unit



**Establishing a Emergency Party-Line with TC8938-1:**

1. When a user at the master location picks up the phone all Remote Phones A-G will ring.
2. When any one of the Remote Phones goes Off Hook, the ringing of that phone will stop but the remaining phones will keep ringing.
3. After Emergency Party-Line communication is established, any user at the Remote Phones A-G can pick up the phone and communicate with everyone on the line.
4. Conversely, any Remote Phone user can communicate with the user at the master location.

*NOTE: When the phone on the master location has been picked up, all remote phones will ring until the phones have been picked up or the phone at the master location has been hung up.*

**Data Rates**

Telephone.....300 Hz to 3.4 KHz

**Channel Capacity**

TC8938-1.....(1 FXS Host + 7 Remotes)

TC8938-2.....(1 FXO Host + 7 Remotes)

TC8938-3.....(2 FXS Host + 6 Remotes)

**Electrical**

Connector.....RJ11 Female

Interface.....2-wire POTS

**System**

Bit Error Rate.....1 in 10<sup>9</sup> or better

**Visual Indicators**

System Status.....Alarm, Power A,

.....Power B, Vcc

Channel Status .....Tx Rx

**Diagnostic Functions**

.....Ring Test, Disable Alarm,

.....Volume Adjustment

**Power**

Standard.....12VDC @1.2A

Optional.....24VDC, -48VDC, 125VDC

.....or 115/230VAC for Rackmount unit

...or 115/230VAC w/ power adapter for

Wallmount unit

**Temperature**

Operating .....-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

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.....(887 gm) 1.96 lb



SAI GLOBAL

ISO 9001

Quality

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