Analog Broadcaster/Bridge

Model TC8928

- **Broadcasts Up to 7 Remote Ports**
- **4-Wire Analog**
- **Operates in Normal and Bridge Mode**
- **12VDC Power Supply, Optional 24VDC, -48VDC, 125VDC or 115/230VAC***
- **Built-In Power Redundancy**
- **Rackmount or Standalone**
- **Hi Temp or Extreme Temp Options**

TC8928S Standalone/Wallmount Unit

TC8928R (Housed in TCRM195 19" Rackmount Card Cage)

▌ntended for public safety and SCADA communications applications, the new TC8928 Analog Broadcaster/Bridge from TC Communications receives a single 4-wire 600 ohm analog signal and broadcasts it to up to 7 remote analog lines. It can be used in conjunction with the TC3846-6 Analog IP Gateway to broadcast over Ethernet networks.

The TC8928 provides one host port, up to seven analog ports and operates in **two modes**:

- In **NORMAL** mode, channel 1 (host port) can receive all analog signals from channels 2 to 8. The analog signal from channel 1 will be broadcast to all channels 2 to 8; however, the analog signals from channels 2 to 8 can only go to channel 1.

- In **BRIDGE** mode, all of the analog signals from all channels 1 to 8 can communicate at the same time.

Diagnostic LEDs for signal IN and OUT are included for each channel. Additional LEDs are provided for Power A, Power B, and Vcc.

The TC8928R rackmount 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 also available for harsh environments.

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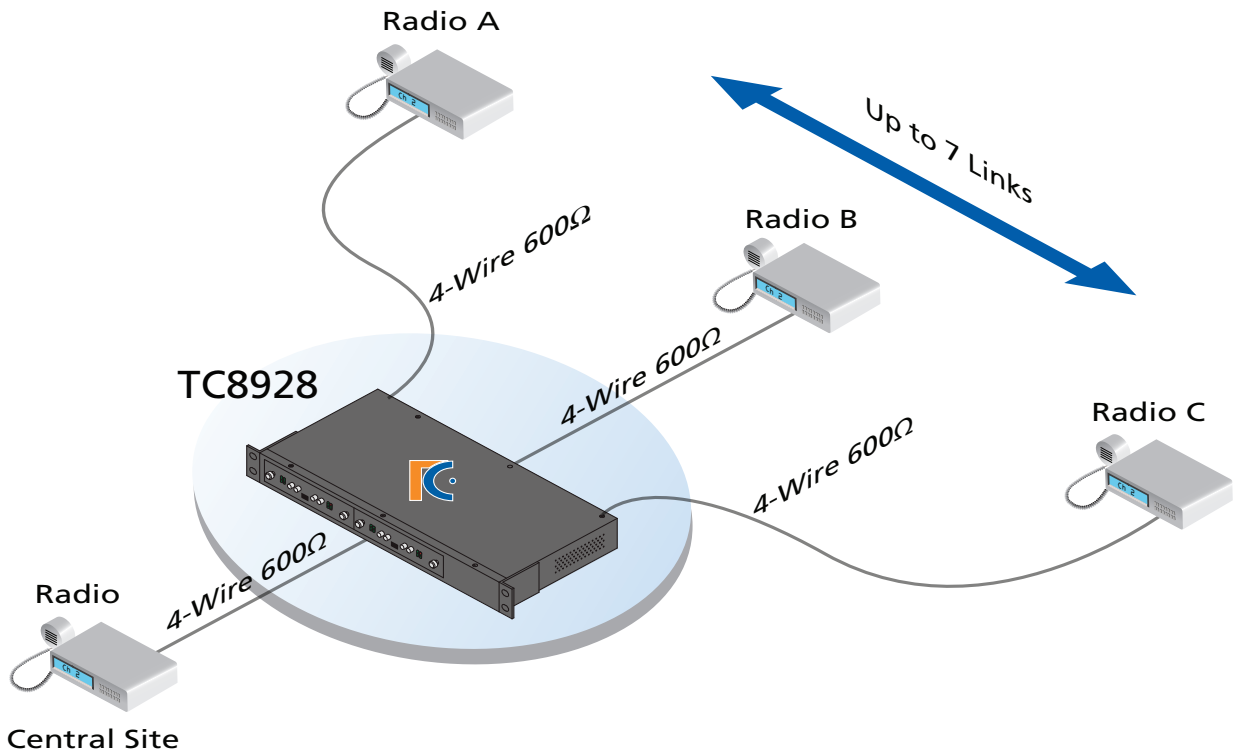### FIBER OPTIC CONNECTIVITY

Applications

Broadcasts single source radio messages to multiple remote audio devices (e.g. radio consoles, speakers & repeaters)

Broadcasts analog SCADA computer signals out to multiple sites or Remote Terminal Units (RTUs) with one site responding back to host

Often used with TC3846-6 IP Gateway to multicast analog signals over Ethernet/IP

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

Typical Analog Broadcasting Application Using TC8928

Audio Bandwidth

4-Wire Analog.......300 Hz to 3.4 Khz

Channel Capacity

4 or 8................4 (1 Host + 3 Remotes)

.........................8 (1 Host + 7 Remotes)

Electrical

Connector ....RJ11 Female

Analog Interface (4 Wire)...................

.... 600 Ohm Isolated Transformer

System

Bit Error Rate ....1 in 10^9 or better

Visual Indicators

System Status ....Alarm, Power A,

Power B, Vcc,

Channel Status........................IN/OUT

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-Temp1 (optional)...–20°C to 70°C

Extreme ....–40°C to 80°C

Storage ....–40°C to 90°C

Humidity ....95% non-condensing

Physical (4-ch Standalone)

Height.........................(3.53 cm) 1.39″

Width.........................(18.13 cm) 7.14″

Depth.........................(24.89 cm) 9.80″

Weight......................(887 gm) 1.96 lb

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FIBER OPTIC CONNECTIVITY

Certified System ™

ISO 9001
QMI-SAI Global
#1045959