

TS2000 Mobile Radio Modem

*Sends data over
all voice radios
and repeaters*

*Automatically
manages
transmissions
to ensure
error free
data transfers*

*Easy to install
using menu based
configuration
software*



Mobile and Fleet Communications

- Automatic Vehicle Location (AVL)
- Computer Aided Dispatch
- Remote Data Base Access
- Differential GPS Navigation
- Traffic Monitoring and Control

Overview

The TS2000 Mobile Radio Modem allows you to send data over your existing voice radios simply and effectively. The modem works with all brands of mobile and hand-held radios and supports both conventional and trunking radio systems including LTR, Motorola, Ericsson EDACS and MPT1327. PC configuration software provided with each modem enables you to configure the TS2000 for a specific radio and system. All settings are field reprogrammable to allow optimization of the TS2000 for custom applications.

Industrial Data Communications

- Water and Waste Water Management
- Irrigation Control
- Oil and Gas Field Monitoring
- Environmental Control and Monitoring
- Security/Alarm System Management

Data Management

The TS2000 supports both transparent and AirNet packet data transfers. Transparent operation transfers your data with minimal overhead providing the highest channel transfer rate possible. AirNet packet data operation provides error checking and automatic retransmission of data in the event there are errors during transmission. AirNet software built into the TS2000 manages your data to ensure error free transfers of messages and files.

... providing complete Wireless Data Solutions



TS2000 Mobile Radio Modem



Versatile Radio Connection

A universal radio interface allows connection to any mobile or handheld radio, including radios operating through conventional and trunked repeater systems.

- No modification of the radio or repeater system required.
- Allows data traffic to share a channel with voice communications or use a separate channel or group.
- Audio mute and channel management functions isolate voice and data communications on the same channel.
- Provides radio link data rates of 1200 and 2400 bits per second.
- Compatible with NPSPAC certified public safety radios.

Flexible Data Interface

Serial port supports connection to any asynchronous equipment.

- Supports all RS-232 handshake lines.
- Optional data only mode requires only the receive and transmit data lines.
- Works with RS-232 and TTL signal levels.
- Supports data rates of 300 to 9600 baud.

Optional Error Correction

Optional Forward Error Correction (FEC) coding utilizes block coding with interleaving to provide error correction of blocks of errors up to 16 bits long. FEC coding is ideal for combating errors induced from multi-path fading common in mobile environments.

Selectable Protocols

Selection of low overhead, highest throughput transparent mode or full packet data operation. Transparent mode sends your data with minimum delay and overhead. AirNet packet data operation provides transfer management of your data and includes addressing, error checking and automatic retransmissions of data packets to guarantee error free data transfers.

AirNet Features

- CSMA/CA algorithm minimizes collisions.
- Selective repeat sliding window ARQ provides high channel efficiency.
- Operates in point to point, point to multi-point, and full mesh networks.
- Supports subgroup and all-call broadcast transmissions.
- Modems can be configured as store and forward data repeaters for extended radio coverage.

PC Configurable

- PC software with menu interface allows simple setup, testing and diagnostics.
- Flash memory program storage allows easy in-field firmware upgrades.
- Free technical support provided during all phases of installation and use.

Rugged and Reliable

- Rugged extruded aluminum housing designed to withstand the abuse of mobile environments.
- All external interfaces protected against voltage transients and electrical shorts.
- Two year no nonsense warranty.

Teledesign Systems provides a complete line of wireless data equipment, including high speed wireless modems, antennas, cables and RF amplifiers.

