

## TRAKIT-25A

When an application requires more than the basics the TRAKIT-25A provides the technology to accomplish the goal.

The TRAKIT-25A was designed for use on analog radio communications systems and is the platform for building systems for customized applications. The TRAKIT-25A has two data ports that can be programmed or customized for numerous purposes in a wide variety of applications.

Possible functions include messaging, bar code data capture, sensor data capture, data file transfer, etc. Multiple inputs are possible where, for example, messaging AND bar coding or data transfer needs to take place. Along with the capability of expanded capability for data transfer the TRAKIT-25A is fully operational for real-time tracking and data logging and includes all of the intelligent TRAKIT features.

Whether the objective is to incorporate a unique fleet management or data communication feature, employ multiple, simultaneous processes or provide the basic architecture for a highly specialized unit for a specific application the TRAKIT-25A provides the solution.



### Features

- Accommodates applications requiring custom or multiple data communications requirements
- Use for both real-time monitoring and data logging
- Attaches to radio
- Configure on-board parameters over-the-air
- One programmable data port
- One customizable data port
- Download buffer data over-the-air to office computer
- Capable of multiple function input
  - TRAKIT BAR CODE
  - TRAKIT SUPERVISOR MONITOR
  - Sensor input
- Event alerts to dispatcher
- Intelligent triggering of real-time position reporting
- Intelligent position recording in the onboard data buffer



# TRAKIT 25A

## Specifications



<b>Input voltage</b> .....	11 VDC - 18 VDC
<b>Standby current @ 13.8 VDC</b> .....	125mA
With GPS receiver and antenna .....	310 mA
<b>Temperature range</b> .....	0° to +70° C
<b>Relative humidity</b> .....	90% at 50° C
<b>TX audio output impedance</b> .....	600 ohms
High impedance .....	10K ohms
<b>TX audio level (into 600 ohms)</b> .....	0V to .77V RMS
<b>RX audio level</b> .....	30mV RMS to 2.5V RMS
<b>Modem data</b> .....	1200 baud MSK
<b>Weight</b> .....	1.1 lbs
<b>Dimensions</b> .....	5.5" (w) x 5.5" (d) x 1.5" (h)

### Description

The Trakit-25A provides a full featured Automatic Vehicle Location (AVL) system for fleet management using the Global Positioning System (GPS). The Trakit-25A contains a GPS receiver, a data buffer and a data modem. Location data is accumulated in the buffer and can be sent to the AVL base computer through a radio link.

The Trakit-25A is designed for use on 450 MHz, 800 MHz, shared or dedicated, trunked or conventional radio systems. Interfaces to a number of different radios have been developed for the Trakit-25A. Various radio interface cables are available for quick and easy installation.

### Capabilities

- Can be used on 450 MHz, 800 MHz, shared or dedicated, trunked or conventional radio systems.
- Interface kits to many radios are available for easy installation.
- Operating and timing parameters are stored in non-volatile EEPROM and can be programmed to meet system requirements.
- Voice and data can be intermixed on the radio channel.
- Data port has numerous programmable operating modes.
- Two event input signals allow positions records to be generated on external events.
- An external output allows control of external devices by the AVL base software.
- Onboard battery backed position buffer holds 1000+ records.
- Internally located GPS receiver board.
- Onboard 1200 baud MSK modem.