

RAIDER II



High-Performance LTR Trunking with TrAVL Data

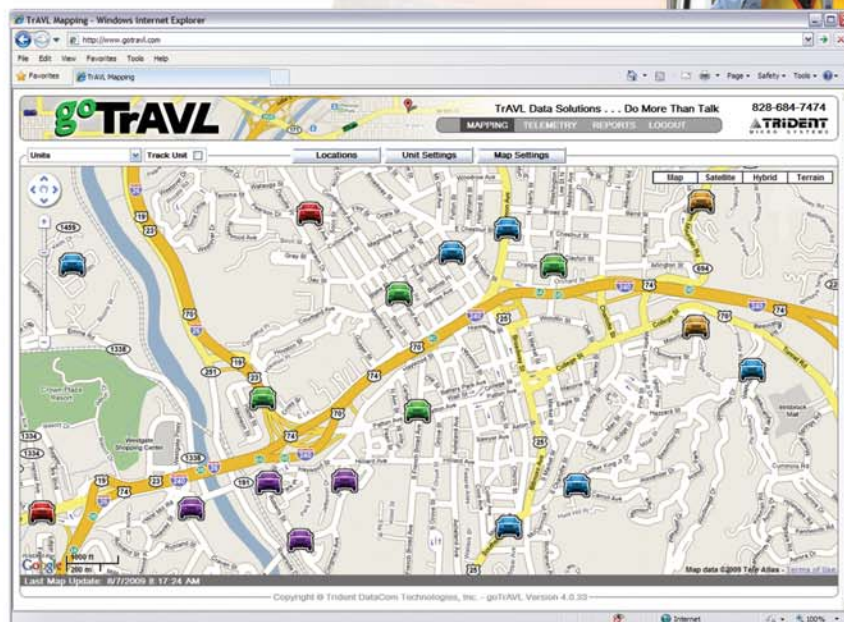
The Raider II brings a new level of performance to LTR and Conventional system owners. The Raider II provides all the features of the Raider with the addition of data features that offer fleet owners the ability to view statistical information on every mobile they have on the road.

The GoTrAVL.com web site provides details on a mobile's location along with the ability to receive telemetry information, monitor geofence and speed limit violations, and produce automated reports. The Raider II supports SCADA operations in a wide scope of applications and industries.



Features

- GPS, AVL, Telemetry
- SCADA
- LTR and Conventional Systems
- CTCSS/DCS Capability
- Repeater Disable Function for Co-channel Protection
- Allows Conventional & Trunking Users to Share Channels
- Allows Voice & Data to Share Channel with No Collisions



TRIDENT
MICRO SYSTEMS



Go to www.GoTrAVL.com and click on the little red truck to see the video overview.



Features & Functions

Data Collection – The Raider II is a fully functioning LTR controller that has been enhanced with the Trident Data capability. Additionally, it acts as the data extraction point, where data is taken from the system and fed to the server.

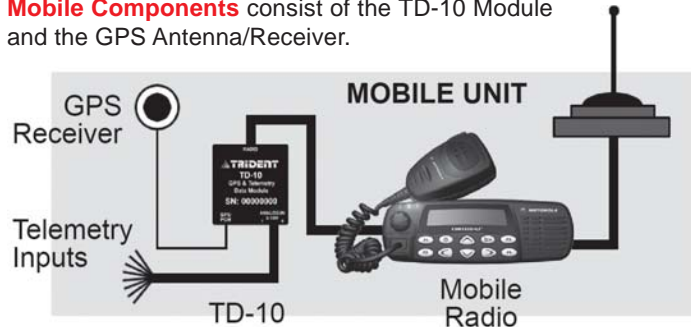
The Raider II comes bundled with Trident's unique TrAVL Bridge software, which manages the connection to the site regardless of connection type. The TrAVL Bridge supports direct serial connection, serial connection via dial-up modem, or serial connection via Ethernet to serial converters such as the Trident ES-2. All data collected by the TrAVL Bridge is then transported to either the TrAVL Server via the Internet, or to your own private server.

Fixed Data - Fixed telemetry is the ability to collect data from a remote point to monitor information such as temperatures, fluid levels, or storage capacities. SCADA is the ability to control two-way processes such as open and close valves, gates, control lights and more. SCADA is a two way supervised operation as opposed to telemetry which is simply a one way path from the remote site.

The Raider II supports both telemetry and SCADA, either in addition to or along with AVL and voice communications.

Voice and Data — The Raider II allows for total voice communications as well as data transport on the same channel on a shared basis. When the channel is polling data subscribers it merely appears busy to other units on that channel.

Mobile Components consist of the TD-10 Module and the GPS Antenna/Receiver.



Airtime Logging – Supports Single Period Airtime Logging for all 5000 ID codes.

CTCSS/DCS – Supports 38 EIA subaudible CTCSS tones and up to 20 user selectable DCS codes per channel.

Custom Programming – Special features allow the individual activation of the Repeater Disable Function and the LTR Idle message updates. The functions may be activated per channel on a time selectable basis.

CWID – Morse code identifier supported with the capability of programming a separate Call Sign on a per channel basis.



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ID Code Validation – Provides complete validation for an entire trunking system of up to 20 channels.

Drop Timer – When operating in the conventional mode, the Drop Timer will hold the transmitter keyed up and busy out the LTR bus, but will not encode a CTCSS tone or DCS code. After the drop timer expires the channel will become idle.

Fade Timer – User programmable Fade Timer allows the channel to remain active should there be a momentary loss of LTR data during decode at the repeater site.

Hang Timer – When operating in the conventional mode, the user adjustable Hang Timer keeps the repeater transmitter keyed up while continuing to output the decoded CTCSS tone or DCS code.

Easy Interface – Test switch provided for tuning and alignment. All level adjustments, test points, and dip switches are readily accessible on rear panel. Separate data input and output inversion switches for DCS and LTR. Separate data level settings for LTR data and CTCSS/DCS.

Repeater Disable – Trident's exclusive Repeater Disable Function helps to protect co-channel users from interference by "locking-out" the affected channel during the time it is being used by another repeater or system. This is especially useful in UHF trunking applications.

System Management – Password protected modem support for downloading of logged airtime and upload/download of system configuration.

Specifications:

Repeater Interface	
Discriminator Input	50mV to 1 volt
TX Audio Output	0 to 2 volts Peak to Peak
TX Data Output	0 to 2 volts Peak to Peak
PTT Output	Open Drain FET 200mA
Comm Port Interface	
Baud Rate	1200 or 2400 Baud
Interface Type	DB-9 DTE
Data Bus Interface	
T-NET	Proprietary Differential Data Bus
Electrical	
Power Supply	11 to 15 volts DC @ 750mA
Environmental	
Operating Temperature	-40 to 60 Degrees Celsius
Humidity	90% Non-condensing
Physical	
Size	1.75"H x 19"W x 6"D
Mounting	19" Rack - Adjustable Ears
Weight	3.5 lbs.