

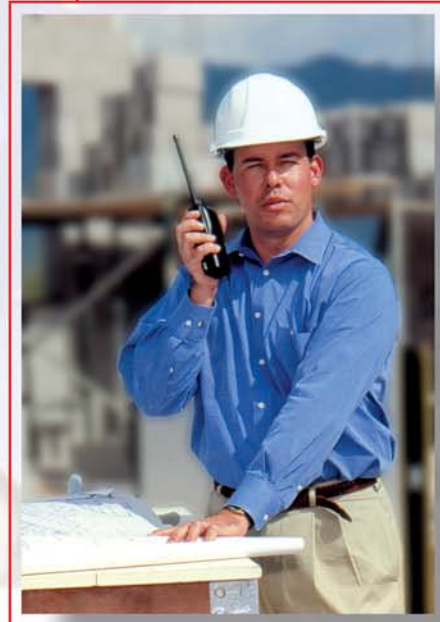
# MARAUDER



## *High Performance LTR<sup>®</sup> Trunking*

### Features

- UHF Trunking Ready
- LTR<sup>®</sup> Trunking Logic Controller
- Feature Rich Telephone Interconnect
- 2 Wire or 4 Wire E&M Capability
- Audio Companding
- Dial Click Encode/Decode
- CTCSS/DCS Capability
- “Smart” Repeater Disable Function for Co-channel Protection
- Dispatch Networking



# MARAUDER

## Features & Functions



PN 850-002

**Airtime Logging** - Single period airtime logging for all 5000 ID codes.

**Audio Companding** - Audio companding is provided and may be enabled or disabled on a per ID code basis.

**Call Progress Tones** - Unique tones provided to mark call progress for landline and mobile interconnect calls.

**CTCSS/DCS** - 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 and LTR® Idle message updates. The functions may be activated per channel on a time selectable basis.

**CWID** - Morse code identifier supported with programmable separate Call Sign on a per channel basis.

**Dial Click Decode/Pulse Dialing** - Reliable telephone interconnect service where DTMF may not be available.

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

**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.

**Half or Full Duplex Operation** - System supports half or full duplex mobile operations.

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

**Dispatch Networking** - Optional Dispatch Networking feature allows users to network with any of up to 64 sites through the use of DTMF commands.

**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** - User adjustable timer, in conventional mode, keeps the repeater transmitter keyed up while continuing to output the decoded CTCSS tone or DCS code.

**Interconnect Activity Timer** - Interconnect mobile activity call reminder and termination tones (90 seconds).

**Interconnect Rings** - Variable number of interconnect rings to mobile from 1 to 20.

**Interconnect Timer** - Interconnect Conversation Timer variable from 1 to 90 minutes.

**Multiple Interconnect Levels** - Programmable interconnect levels by ID code to provide local only or full access to phone lines.

**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.

**Smart Repeater Disable** - Allows system operators to monitor co-channel traffic for CTCSS tones or designated DCS codes.

**System Management** - Password protected modem support for downloading of airtime storage and upload/download of system configuration.

**2 Wire or 4 Wire Interface** - Telephone interconnect supports standard 2 wire loop start and 4 wire E/M connections.

## 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
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### Electrical

Power Supply	11 to 15 volts DC @ 750mA
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### Environmental

Operating Temp.	-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.

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## Tuff-Modem

Ideal for Marauder



PN 300-234

- Baud rates of 1200 or 2400
- Answers incoming calls automatically
- Custom Micro Controller with Watch Dog
- Front panel LEDs indicate operational status
- RS-232 serial DB-25 female connector



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