

# RAIDER



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

### Features

- UHF Trunking Ready
- LTR<sup>®</sup> Trunking Logic Controller
- CTCSS/DCS Capability
- Repeater Disable Function for Co-channel Protection
- Easy interface and set-up with most repeaters
- Allows conventional and trunking users to share channels
- Interconnect Model Available



**TRIDENT**  
MICRO SYSTEMS



# Features & Functions



PN 850-001

**Airtime Logging** - 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.

**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.

**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.

**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.

**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.

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

**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
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### Electrical

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

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## Tuff-Modem

Ideal for Raider



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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