MARAUDER

High Performance Trunking

...without the high price!

- **UHF Trunking Ready**
- **LTR® 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**

POWER SYNC CALL RECEIVE CARRIER TRANSMIT TALK LISTEN

TRIDENT
Trunking Logic Controller

TRIDENT
MICRO SYSTEMS

Features and Functions:

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

CWID - Morse code identifier supported with the capability to program a separate Call Sign on a per channel basis.

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

Dispatch Networking - The optional Dispatch Networking feature for the Marauder allows users to network with any of up to 64 sites through the use of DTMF commands.

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.

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.

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

Hang Timer - When operated in the conventional mode this user adjustable timer keeps the repeater transmitter keyed up while continuing to output the decoded CTCSS tone or DCS code.

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

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

Interconnect Rings - Variable number of interconnect rings to mobile from 1 - 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 Feature 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 helpful in UHF trunking applications.

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

Electrical

Power Supply	11 to 15 volts DC @ 750mA

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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