Specifications

TDL450L Radio



TDL 450L Radio

Radio Name Frequency Bands

390 - 430 MHz 430 - 470 MHz

Synthesized 12.5 kHz resolution, +/- 1ppm stability

N/A Programmable 0.1 W to 4.0 W (where allowed) -110 dBm BER 10⁵

> No Yes

1 x 3 wire RS232, 115.2 kbps maximum LCD display, 16 characters by 2 rows On/Off button 5 navigation buttons

Modem power / status indicators

8.89 cm x 4. 6 cm x 16.0 cm (3.5 in x 1.809 in x 6.3 in) 0.69 kg (1.52 lb)

9.0 to 30.0 V DC, 2 Amp maximum

7 W nominal @ 12.0 V DC, 1 W RF output 0.6W nominal @ 12 V DC

External 50 ohm, BNC

Yes Yes Yes, with Cellular device connected

Channel spacing Number of Channels Number of Networks RF Power Select Power output Sensitivity Adjacent Channel Selectivity Access Point for 2 Way Data License Required

General

DTE - DCE Interface Keyboard and display

Dimensions (L \times W \times D) Weight

Power

External Internal battery

During TX (nominal) During RX (nominal)

Antenna

Modes of Operation

Base Rover Repeater Rebroadcaster

Number of Repeaters Supported in a Network



Specifications

TDL450L Radio

Modem Specifications RF Modulation

Link Rate / Modulation

Gaussian Minimum Shift Keying (GMSK) or (FSK) 19200 bps / 4 level FSK 9600 bps / 4 level FSK 19200 bps / GMSK 16000 bps / GMSK 9600 bps / GMSK 8000 bps / GMSK 4800 bps / GMSK Transparent EOT/EOC, Packet-switched,Trimble®, TT450S (HW), SATEL®

Link Protocols

Serial Port

Yes

Environmental Specifications

Forward Error Correction

Operating Temperature Transmitting Receiving Storage Temperature Vibration / Shock Humidity / Enclosure

Connections

Power Data Antenna Ethernet Serial Bluetooth

Mount

Operational Range

Typical

Optimal

Configuration

Type Certification

-40 °C to +85 °C (-40 °F to +185 °F) -40 °C to +65 °C (-40 °F to +149 °F) -55 °C to +85 °C (-67 °F to +185 °F) MIL/STD 810F IP 67

5 pin LEMO #1 shell

5 Ohm, TNC Female

All models are type accepted and certified for operation in the U.S., Canada, Australia, New Zealand, Russia and Europe. For detailed information concerning your country's type certification, please contact your local sales representative



Specifications

Notes

TDL450L Radio

Before operating this modem, users are legally required to obtain frequency licenses as required by the country of use Only one frequency band per radio Only one channel spacing per radio Use the same frequency for all modems in the same wireless network Range varies with terrain and operatonal conditions Power consumption and battery life depend on the broadcast information content and wireless data rate (e.g. CMR versus RTCM SC-104 Ver 2.x packets at 1 Hz epoch rates).

Specifications subject to change without notice.

© 2008, Trimble Navigation Limited. All rights reserved. Trimble and the Globe & Triangle logo are trademarks of Trimble Navigation Limited, registered in the United States and in other countries. TRIMTALK is a trademark of Trimble Navigation Limited. All other trademarks are the property of their respective owners. PN 022482-1555

Trimble Heavy and Highway Business Area

5475 Kellenburger Road Dayton, Ohio 45424 USA 800-538-7800 (Toll Free) +1-937-245-5154 Phone +1-937-233-9441 Fax www.trimble.com **Trimble Authorized Distribution Partner**

