# **Specifications**

## **TDL450B** Radio



#### TDL 450B Radio

403 - 473 MHz

12.5 kHz and 25kHz

#### N/A N/A Configurable [Front panel, Programmable] 1 W to 35 W (where permitted) Typiclly -120 to -110 dBm (BER 10-2)

No

#### Yes

1 x 3 wire RS232, 115.2 kbps maximum LCD display, 6 Lines, 18 Char On/Off button 4 navigation buttons English Power / Bluetooth / Tx / Rx 23.12 cm x 15.12 cm x 7.70 cm 1.96 kg (4.3 lb)

> 9-11 V DC, max 5W output 11-30 V DC, up to 35W output None 76 - 101W with 35W RF output 24 - 32W with 10W RF output 7 - 10W with 1W RF output

> > 2 - 2.7W

External 50 ohm, TNC(F)

#### **Radio Name Frequency Bands**

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 Yes Rover Yes Repeater Yes Max repeaters 2 Rebroadcaster Yes, with Cellular device connected

## **Specifications**

**Type Certification** 

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#### **Modem Specifications RF** Modulation Gaussian Minimum Shift Keying (GMSK) or (FSK) Link Rate / Modulation 19200 bps / 4FSK (25KHz) 9600 bps / 4FSK (12.5KHz) 19200 bps / GMSK (25KHz) 16000 bps / GMSK (25KHz) 9600 bps / GMSK (12.5KHz / 25KHz) 8000 bps / GMSK (12.5KHz) 4800 bps / GMSK (12.5KHz / 25KHz) Link Protocols TrimTalk v1 PCC EOT (FEC On/Off, Scrambling On/Off) PCC FST (FEC On/Off, Scrambling On/Off) PCC EOT4 (FEC On/Off, Scrambling On/Off) SATEL (FEC On/Off, Whitening On/Off, CRC16/No EC) See Link Protocols Forward Error Correction **Emission Designator Environmental Specifications Operating Temperature** Transmitting -30 °C to +65 °C (-22 °F to +149 °F) -30 °C to +65 °C (-22 °F to +149 °F) Receiving Storage Temperature -40 °C to +85 °C (-40 °F to +185 °F) Vibration / Shock EN 60068-2-31:2008 / IEC 60068-2-64:2008 / EN 60068-2-27:2008 Humidity / Enclosure IP 67 (Dustproof and watertight to depth of 1m for 30 minutes) MILSTD-810H: Method 509.7 (Corrosion resistance) Connections Power 2-pin ODU Data 5-pin ODU Antenna 5 Ohm, TNC(F) Ethernet N/A Serial 1 RS-232 port, 115.2 kbps max Bluetooth Server and Client modes supported, class 2 Mount Tripod Configuration Display and navigation buttons Virtual Wharehouse/Trimble Installation Manager SRL using Web UI on supported GNSS receivers (v6.24 and above)

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

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Notes

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 depends on the DC output load, the broadcast information content and wireless data rate (e.g. CMRx versus RTCMv3 packets at 1 Hz epoch rates).

Specifications subject to change without notice.

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#### Trimble Civil Engineering and Construction Division 10368 Westmoor Drive Westminster, Colorado 80021 USA 800-361-1249 (Toll Free) +1-937-245-5154 Phone +1-937-233-9441 Fax

www.trimble.com

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