Tersus 2W Radio RS460



Wireless Data Transceiver

Overview

The Tersus 2W radio RS460 is a radio solution for both the base and the rover. It provides reliable data communications for mission-critical applications where a combination of stability, superior performance and long range are required.

The RS460 is a lightweight, ruggedized UHF receiver designed for digital radio communications between 457 MHz and 467 MHz in 25 kHz channels, which can be used widely in GNSS/RTK surveying and precise positioning system applications. The RS460 is equipped with a LED display and a keypad which is used for checking the operating status, changing the operating channel, and transmitting power level. It is easy to operate.

Key Features

10 MHz bandwidth coverage over 457-467 MHz bands

Advanced data link design for high performance over entire bands

Software-derived channel bandwidth

Compatible with 25 kHz channel radios

High air link rate

Supports 38400 bps band rate

All metal heavy-duty construction

Wide temperature range





Technical Specifications

General

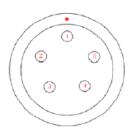
Frequency Range:	457MHz~467MHz
Band Width:	10 MHz
Channel Width:	25KHz
Operation Voltage:	5V~12V
 Power Consumption (typical): Transmitting 2W: Transmitting 1W: Receiving: 	6.5W@DC5.5V 4W@DC5.5V < 400W@DC5.5V
Dimension:	107x62x26.6mm
Weight:	≈213g
Operation Temperature:	-30°C ~ +60°C
Storage Temperature:	-40°C ~ +85°C
Antenna Port:	TNC Female
Antenna Impedance:	50Ω
VSMR:	≤ 1.5

Transmitter

Frequency Stability (at 25°C):	≤±1.5ppm
Configurable Channels:	10
Adjacent Channel Selectivity:	≥ 60dB
RF Output Power: – High Power Level (2W): – Low Power Level (1W):	33.5±0.5dBm@DC5.5V 30±0.5dBm@DC5.5V
Modem	
Air Baud Rate:	9600bps @ 25KHz
Modulation Type:	GMSK
RF Sensitivity: Bette	r than 13dB @ -119dBm
Decode Sensitivity: -116 dBm BER 10E-5 @ 9600bps	
Protocol: Transparent EOT, TT450S and Tersus	

Interface (Pin) Definition

Туре:	RS232
Pin 1:	Power Ground, GND
Pin 2:	Power Ground, GND
Pin 3:	Power, 5V~12V DC
Pin 4:	RXD
Pin 5:	TXD



Overview of Interface (Pin)

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