

# Tersus 2W Radio RS460H

### Wireless Data Transceiver

#### Overview

The Tersus 2W radio RS460H 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 distance are required.

The RS460H is a lightweight, ruggedized UHF receiver designed for digital radio communications between 410 MHz and 470 MHz with 12.5/25 KHz channel spacing, which can be used widely in GNSS/RTK surveying and precise positioning system applications. The RS460H 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**

Wide frequency range of 410-470 MHz

Advanced data link design for high performance over entire bands

Software-derived channel bandwidth

Compatible with 25 KHz channel radios

High air link rate

All metal heavy-duty construction

Wide temperature range



# **Technical Specifications**



### General

Frequency range:	410MHz ~ 470MHz
Channel spacing:	12.5KHz / 25KHz
Modulation type:	GMSK, 4FSK
Operation voltage:	5V~12V
Power consumption (typical):  - Transmitting 2W:  - Transmitting 1W:  - Receiving:	6W@5V DC 5W@5V DC 0.5W@5V DC
Dimension:	107x62x26.6mm
Dimension: Weight:	107x62x26.6mm ≈200g
Weight:	≈200g
Weight: Operation temperature:	≈200g -30°C ~ +60°C
Weight: Operation temperature: Storage temperature:	≈200g -30°C ~ +60°C -40°C ~ +85°C

### **Transmitter**

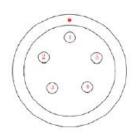
RF output power:  - High power (2W):  - Low power (1W):	33.5±0.5dBm@5V DC 30.5±1.0dBm@5V DC
Power stability:	±1dB
Distance (Typical) :	5-7KM

### Receiver

Sensitivity:	115dBm	@BER 10 <sup>-3</sup> , 9600bps
Co-channel rejection	on:	>-12dB
Adjacent channel s	electivity:	>50dB@25KHz
Modem		
Air baud rate:	19	200/9600/4800bps
Serial baud rate:	115200/384	100/19200/9600bps
Radio protocol:	TrimTalk450	, TrimMark3, South,

## Interface (Pin) Definition

Type:	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)

