



## Performance Specifications

Frequency Range

410–470 MHz

Operating Modes

Single transmission, transceiver mode, radio repeater mode

Channel Spacing

25 kHz, 12.5 kHz Modulation Types: GMSK/4FSK

Communication Protocols

Supports TRIMTALK, TRIMMK3, TRANSEOT, and others

Radio Range

Greater than 20 km

Number of Channels

0–31 (supports up to 32 editable channels)

Operating Voltage

9–16 V

Power Consumption (Typical Values)

1. High Power Transmission (35 W): 96 W @ 12 V DC
2. Medium Power Transmission (22 W): 66 W @ 12 V DC
3. Low Power Transmission (5 W): 35 W @ 12 V DC
4. Standby: 2 W @ 12 V DC

Frequency Stability

$< \pm 1$  ppm

## Product Structure

Dimensions

175 mm (Length) × 130 mm (Width)  
× 86.5 mm (Height)

Weight

Approximately 2 kg

Antenna Connector

TNC, Female

Antenna Impedance

50  $\Omega$

Data Interface

LEMO 5-pin

### **Physical Properties**

Protection Rating

IP67

## Indicators

- Power Indicator
- Transmit/Receive Indicator
- Bluetooth (BT) Indicator

## Buttons

- Power Button (also acts as the Confirm Button)
- Navigation Buttons: Up, Down, Left, Right

## Modem

### Air Data Rate

4800 bps, 9600 bps, 19200 bps

### Serial Port Rate

9600 bps, 19200 bps, 38400 bps,  
57600 bps, 115200 bps

## Operating Environment

Operating Temperature Range

-40°C to +65°C

Storage Temperature Range

-50°C to +85°C

## Transmitter Performance Specifications

RF Output Power (410–470 MHz)

1. High Power (35W):  $45.5 \pm 0.6$  dBm @ DC 12V
2. Medium Power (22W):  $43.4 \pm 0.6$  dBm @ DC 12V
3. Low Power (5W):  $37 \pm 1.8$  dBm @ DC 12V