

HX-U202

Wireless Data Link

Overview

HX-U202 is an IP67 classified UHF radio modem with a high power(35W) transmitter and wide tuning range. It is designed for easy mobile use in demanding field conditions. According to the IP67 standard, the casing and connectors of the U202 are waterproof secured against dust.

In addition to the high output power and wide tuning range, the channel spacing is also selectable to be 12.5 or 25 kHz. U202 is equipped with a digital tube, four LED and three keystrokes, used to indicate the current operating status, as well as for changing the operating channel and power level of the radio modem.

U202 radio modems provide reliable, real-time data communications over distances ranging from tens or hundreds of meters up to around 20 kilometers.

U202 radio modem networks are flexible, easy to expand and can cover a wide variety of solutions from simple point-to-point connections to large networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.



- 1 Channel switch key
- 2 Channel screen
- 3 Power switch key
- 4 High-power indicator
- 5 Low-power indicator
- 6 Transmitting indicator
- 7 Turn on indicator
- 8 ON/OFF key

Specifications

Transceiver

Frequency range	410MHz~470MHz
Tuning range	60MHz
Channel spacing	12.5kHz/25kHz(selectable)
Frequency stability	<1kHz
Type of emission	F1D
Communication mode	Half-Duplex
Link protocols	SOUTH/TRIMTALK/TRIMARK3

Transmitter

Carrier power	5W/10W/25W/35W/@50 ohm
Carrier power stability	±1.5dB
TX Duty	100% @25°C/@35°C 40%
25W	30 min/20 min no limit
5W	no limit/1 hour no limit

Receiver

Sensitivity	-110dBm@BER<10-5
Same channel rejection	>12dB
Adjuacent channel selectivity	>47dB@12.5kHz/>52dB@25kHz
Intermodulation attenuation	>60dB
Spurious emission	2uW

Data modem

Electrical interface	RS232
Interface connector	IP67, 5PIN LEMO
Data speed of serial interface	38400bps
Data speed of radio interface	19200bps@25kHz 9600bps@12.5kHz
Data format	asynchronous data

General

Operating voltage	+9V~+16V
Power consumption	receiver mode: 1.3W
Transmitting mode:	90W@100% duty
Operation temperature	-40°C~+65°C
Store temperature	-40°C~+85°C
Antenna connector	TNC, 50ohm, female
Construction	aluminum enclosure
Size(H×W×D)	180mm×140mm×75mm
Weight	1.6kg
IP classification	IP67