



Rover Radio HX-DU1601D

Key Features

- **60MHz Bandwidth Coverage 410-470 MHz bands**
Advanced data link design for high performance over entire band.
- **Software-Derived Channel Bandwidth**
Compatible with both 12.5 and 25 kHz radios.
- **High Air Link Rate**
Support 9600bps and 19200 bps.
- **Heavy-Duty construction**
All metal construction for the ultimate in impact.
- **High environmental Capabilities**
Waterproof to IP67
High vibration tolerance
Wide temperature range

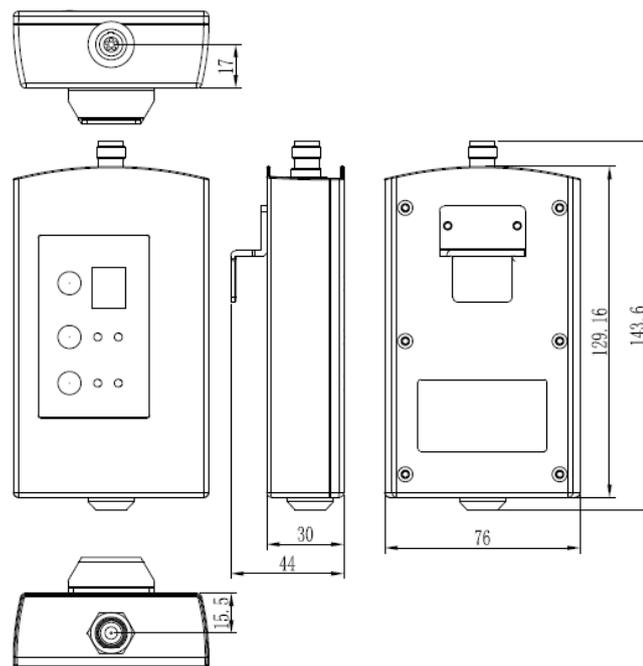
Harxon radio modems provide reliable data communications for mission-critical applications where a combination of stability, supreme performance and long range are required.

The HX-DU1601D is a lightweight, ruggedized UHF receiver designed for digital radio communications between 410 and 470 MHz in either 12.5 or 25 kHz channels, which can be widely used in GNSS/RTK surveying and GNSS precise positioning system. The HX-DU1601D is equipped with digital tube, LED and keypad, used to indicate the current operating status, as well as for changing the operating channel and power level of the radio modem, which is easy to operate and use.

Technical Specifications

Radio		
Frequency range	410~470MHz	
Operating mode	Half-duplex	
Channel spacing	25KHz, 12.5KHz	
Channels	8	
Modulation type	GMSK	
Operation voltage	7.5V	
Power dissipation(Typical)	High power level	3.6W@ DC 12V
	Low power level	2.5W@ DC 12V
	Standby	0.7W@ DC 12V
Frequency stability	$\leq \pm 1.0\text{ppm}$	
Size	148x76x30mm	
Weight	About 560g	
Temperature(ope-ration)	$-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$	
Temperature(stor-age)	$-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$	
Antenna port	TNC, female	

Antenna impedance	50ohm	
Data interface	5Pin	
Transmitter		
RF output power	High level (1W)	30±1dBm@ DC 12V
	Low level (0.5W)	27±1dBm@ DC 12V
Power stability	±1dB	
Harmonics	>52dB	
Receiver		
Sensitivity	-115dBm@BER 10-3, 9600bps	
Adjacent channel selectivity	>50dB@25KHz	
Modem		
Air baud rate	9600bps	
Modulation type	GMSK	
Serial port baud rate	9600 bps、19200 bps、38400 bps、57600 bps、115200 bps	



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