



Key Features

- **Bluetooth enabled**
Cable-free communications with external devices such as GNSS receivers.
- **Equipped with a 1.9 inches Display Screen**
Support the frequency, protocols, power display, serial port baud rate, air baud rate, etc. display and switchover.
- **60MHz Bandwidth Coverage 410-470 MHz bands**
Advanced data link design for high performance over entire band.
- **Internal Rechargeable Battery**
Capacity as high as 6800mAh.
- **Configurable Transmit Power**
Support for 0.5 w, 2 w power switching.
- **Software-Derived Channel Bandwidth**
Compatible with both 12.5 and 25 kHz radios.
- **High environmental Capabilities**
Waterproof to IP67

Rover Radio HX-DU1603D

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-DU1603D 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.

HX-DU1603D is equipped with a Bluetooth transceiver for cable-free communications with external devices. Meanwhile, HX-DU1603D is equipped with a display screen, you can set the parameters by the button on the radio, which is easy to operate and use.

Technical Specifications

Communication		
Data/Power	1 RS-232 port ,5pin	
Power Requirements		
Internal	6800 mAH Li-ion rechargeable battery	
Input Voltage Range	6-9VDC	
During RX	1.0Watts normal@7.5V DC	
Radio		
Frequency range	410~470MHz	
Operating mode	Half-duplex	
Channel spacing	25KHz, 12.5KHz	
Modulation type	GMSK	
Operation voltage	7.5V	
Power dissipation (Typical)	High power level	8.5W@7.5V DC
	Low power level	3.5W@ 7.5V DC
Frequency stability	$\leq \pm 1.0\text{ppm}$	
Size	150x83x31mm	
Weight	About 560g	
Temperature (operation)	-30°C~+65°C	
Temperature (storage)	-40°C~+85°C	
Antenna port	TNC, female	

Antenna impedance	50ohm	
Data interface	5Pin	
Charging Time	8h	
Continuous Working Period	8h	
Stand-by Time	35h	
Transmitter		
RF output power	High level (2W)	33±0.5dBm@DC 7.5V
	Low level (0.5W)	27±1dBm@DC 7.5V
Power stability	±1dB	
Harmonics	>50dB	
Receiver		
Sensitivity	-114dBm@BER 10-3, 9600bps	
Adjacent channel selectivity	>50dB@25KHz	
Modem		
Air baud rate	9600bps、19200bps	
Modulation type	GMSK	
Serial port baud rate	9600 bps、19200 bps、38400 bps、57600 bps、115200 bps	
Bluetooth Specification		
Bluetooth Core	2.0、2.1	
Bluetooth antenna	Internal Onboard Antenna	
Profiles	Serial Port Profile	

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