



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

Rover Radio HX-DU1601D

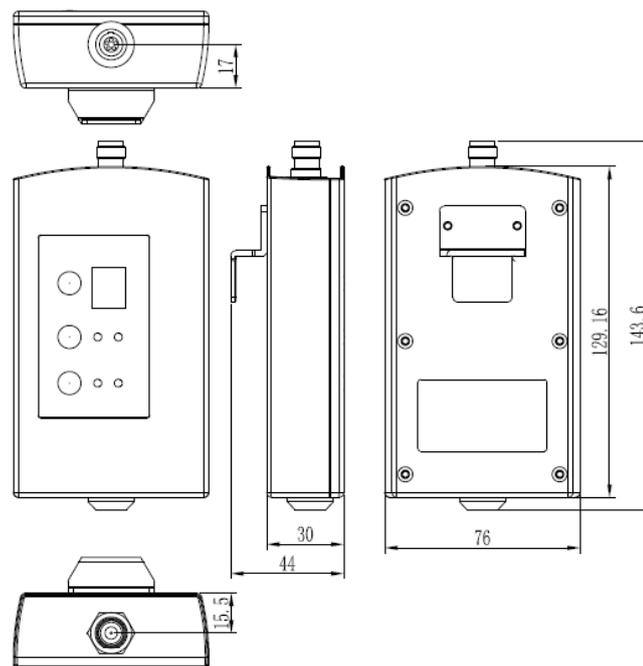
Harxon radio modems provide reliable data communications for mission-critical applications where a combination of stability, supreme performance and long range are required.

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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