

Kordil UHF35 Radio Modem



Kordil UHF35 Radio modem, solution for critical applications requiring stability, top-notch performance, and extensive range.

This high-speed, high-power wireless data link is engineered to withstand the demands of GNSS/RTK surveying and precise positioning tasks. With 35 Watt of power, it ensures exceptional range even in challenging urban environments.

Kordil UHF35 top features;

- Real time data communication
- High speed wireless data link
- Industry standard
- Simple and easy-to-use design
- Selectable frequencies
- Long distance range

Technical Specification

General Specification		Transmitter		
Frequency range	410 ~ 470 MHz	RF output power	High power level (35W)	45.5±0.5dBm @DC, 12V
Operating Mode	Half-duplex		High power level (30W)	44.8±0.5dBm, @DC, 12V
Channel spacing	25 KHz, 12.5 KHz		High power level (20W)	43±1dBm, @DC, 12V
Modulation type	GMSK		Low power level (15W)	41.8±1dBm, @DC, 12V
Operation voltage	12V		Low power level (10W)	40±1dBm, @DC, 12V
Power dissipation (Typical)	High power level (35W)		≤110W @DC 12V	Low power level (5W)
	High power level (30W)	≤100W @DC, 12V	Power stability	± 1 dB
	High power level (20W)	≤75W @DC, 12V	Harmonics	> 50 dB
	Low power level (15W)	≤60W @DC, 12V	Receiver	
	Low power level (10W)	≤45W @DC, 12V	Sensitivity	-114dBm @BER 10 ⁻³ , 9600bps
	Low power level (5W)	≤25W @DC, 12V	Co-channel rejection	> -12dB
Standby	≤1.5W @DC, 12V	Adjacent channel selectivity	> 50dB @25 KHz	
Frequency stability	≤ ± 1.0 ppm	Modem		
Size	186 × 140 × 73mm	Air baud rate	9600 bps, 19200 bps	
Weight	About 1.5 kg	Modulation type	GMSK	
Temperature (operation)	-30 °C +65 °C	Serial port baud rate	9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps	
Temperature (storage)	-40 °C +85 °C			
Antenna port	TNC, female			
Antenna impedance	50ohm			
Data interface	LEMO 5Pin			

