



Features

- ⚙️ **Designed for GNSS RTK Survey Systems**
- ⚙️ **Change Channels in the Field**
- ⚙️ **Support 9600/19200 Air Baud Rate**
- ⚙️ **6 User-defined Power Levels From 2W to 30W**
- ⚙️ **Anti-reverse Power Protection**
- ⚙️ **Super-rugged Housing and Robust Reliability**
- ⚙️ **Work as TX / RX / Repeater Mode**

Designed for GNSS RTK Survey Systems

The CDL5 (ComNav Data Link) is a high-quality, entire band UHF data radio designed for GNSS RTK survey system. High power design will extend your RTK work region. Fully metal construction provides high performance and rugged dependability for the toughest environment.

Easy of Setup

The CDL5 is designed to easily amount on all standard tripods and range poles. Advanced 10 channels can be easily changed even in the field. Different power level can be adapted as condition require: you can use high power for long range, and when in small work area, the lower power extends your battery working hours.

Repeater Function

The CDL5 can seamlessly broadcast corrections to radio-enabled devices, and CDL5 is also capable of repeating real-time data, work coverage can be enhanced by the function of repeaters, which enables you to reach inaccessible or obstructed locations.

General

Data Connector:	1 Serial Port (7 pin Lemo)
	Baud rates 38400bps (4800 bps to 115200 bps optional)
User Interface:	Power button (for powering receiver) Channel button Power selected button Digital display
RF External:	50 Ohm, N-TYPE female
Power Connector:	2 pin Lemo

Electrical

Input voltage:	10V-14.5V DC
TX Current:	1-2A (2W), 5-6A (30W)
RX Current:	200mA (0.75W)

Modem

Link Rate:	9600 bps/GMSK 19200 bps/GMSK
Link Protocols:	Transparent, South, TT450, MAC
Forward Error Correction:	Yes

Radio

Frequency Bands:	410 MHz – 470 MHz
Frequency Control:	Channel Spacing 12.5 kHz ± 1.5 ppm Stability
RF Power Select:	Low/High
RF transmit Output:	2W/5W/10W/15W/20W/30W
Adjacent Channel Rejection Ratio:	-55 dB
Sensitivity:	-117dBm BER 10^{-5}

Environment

Operation Temperature:	-30 °C to 65 °C
Storage Temperature:	-45 °C to 85 °C
Humidity:	100% condensation
Dustproof and waterproof:	IP67, protected from temporary immersion to depth 1m
Shock:	Designed to survive a 2m drop onto concrete

Physical

Size:	11cm×18cm×9.3cm
Weight:	1.3kg
Mount:	Tripod Bracket, 5/8" – 11 Range Pole

Specifications subject to change without notice.

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