



Size: 11cm × 18cm × 9.3cm

Weight: About 1.3 kg

CDL7

UHF External Datalink

DESIGNED FOR GNSS RTK SURVEY SYSTEMS

The CDL7 (ComNav DataLink) is a high-quality, entire band UHF external datalink 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.

Features

Designed for GNSS RTK Survey Systems

Change Channels From 410-470 MHz in the Field

5 Selectable Air Baud Rate Options

User-defined Power Levels 5W and 35W

Anti-reverse Power Protection

Super-rugged IP67 Proof Level and Robust Reliability

Work as TX/RX¹ Mode

EASY OF SETUP

The CDL7 is designed to easily amount on all standard tripods and range poles. Advanced 10 frequency 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.

PROTECTION FUNCTION

Equipped with anti-reverse power supply protection function, high/low voltage prompt function and transmission output circuit short circuit protection function, the CDL7 external datalink is well-protected from misoperation damage.

General

| | |
|----------------------------------|--|
| Frequency Range | 410-470 MHz |
| Work Mode | Half-duplex |
| Frequency Stability | ±1.5ppm |
| Modulation System | CSS |
| Air Baud Rate | 500bps/11000bps/12500bps/15500bps /18000bps |
| Protocol Type | LoRa |
| Adjacent Channel Rejection Ratio | - 55 dB |
| Forward Error Correction | Yes |
| Sensitivity | -120dBm |

Electrical

| | |
|-----------------------|------------------|
| Power Supply | +10V ~ +14.5V DC |
| Transmit Current | < 6A |
| Received Power | 0.6W |
| Transmit Power Select | 5W/35W |

Environmental

| | |
|--------------------------|--|
| Operating Temperature | -30 C to +65 C |
| Storage Temperature | -45 C to +85 C |
| Humidity | 100% no condensation |
| Dustproof and waterproof | IP67, protected from temporary immersion to depth 1m |
| Shock | Designed to survive a 2m drop onto concrete |

Physical

| | |
|-----------------------|--|
| Data Connector | 1 Serial Port (7-pin Lemo) Baud rates 115200bps (4800 bps to 115200 bps optional) |
| Power Connector | 2-pin Lemo port |
| RF External | 50 Ohm, N-TYPE female |
| User Interface | - Power button (for powering receiver) - Channel button - Power selected button - Digital display |
| Size (with connector) | 11cm × 18cm × 9.3cm |
| Weight | 1.3 kg |
| Mount | Tripod Bracket, 5/8"-11 Range Pole |

Accessories

| |
|---|
| 1 Datalink Antenna |
| 1 Extension Bar |
| 1 Datalink cable from GNSS Receiver to CDL7 |
| 1 External Power Cable for CDL7 |
| 1 Aluminum Disc |
| 1 Aluminum Tripod |

1. The Rx work mode of CDL7 is upgradeable.