



### Features

- ⚙️ **High receiver sensitivity**
- ⚙️ **Multiple link protocol, compatible with major brands**
- ⚙️ **Low power consumption**
- ⚙️ **Easy to integrate to various solutions**

### The Modem for Reliable Wireless Receivers

The ComNav U30 is designed for integration into products that require real-time wireless receivers, and where space and weight is at a premium. ComNav's implementation of advanced frequency combination technology (PLL) gives the U30 outstanding performance for reliability, sensitivity and anti-interference.

### Small Size Design

Our customers are telling us that the combination of small size and low power consumption design is the trend for future. We made the U30 is as small as possible so you can easily integrate it into small sized products such as handheld RTK GNSS receiver, reduce unit weight for the user's convenience and still have good battery life.

### Powerful Compatibility

The U30 link protocol is compatible with the major brands in the market. It is easy for you to make it work with the existing products. With its excellent EMC rating, the U30 is suitable for integration into devices where interference is a concern.

## General Specifications

- DTE - DCE Interface: 2 RS-232, 115.2 kbps maximum

## Power

- External: 3.3–3.6 VDC
- Power consumption : 0.65 W

## Antenna

- External: 50 Ohm, MCX

## Modem Specifications

- Link Rate/Modulation
  - 9600/19200 bps
  - GMSK
- Link Protocols: Transparent EOT/EOC, Trimble®, OEM-specific, South, MAC
- Error Correction: Forward Error Correction

## Radio Specifications

- Frequency Bands : 410-470 MHz
- Channel Spacing : 12.5 kHz
- Frequency stability :  $\pm 1.5$  PPM
- Sensitivity : -118 dBm BER  $10^{-5}$
- Working model : Tx & Rx

## Physical

- Size(L × W × H): 71.1mm × 45.7mm × 11.6mm
- I/O interface: 20-pin Double male header
- Weight: 19g

## Environmental

- Working temperature: -40 °C to +85 °C
- Storage temperature: -50 °C to +90 °C

Specifications subject to change without notice.

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