

# RTK Bee Station Datasheet



Base station for RTK fixed solution on 10 km

L1 GNSS RTK Base station and antenna in a single rugged housing. Provides reference position for RTK fixed solution on 10 km. Supports NMEA-0183, RTCM 3.x protocols. SkyTraq raw data binary.

- 90sec to 1st ambiguity fixed solution at 7Km baseline
- Reacquisition 1s

## Features

- Multi Constellation type GPS+Glonass+SBAS
- Fast RTK Convergence Times
- Wireless interfaces LoRa/WiFi/Bluetooth
- Triple interfaces RS232/CAN/USB
- Regularly Upgrades

## GNSS

- RTK Base station
- Multi Constellation types
- GPS L1 + QZSS + Glonass + SBAS 167 channels
- Update Rate
  - RTK 4cm accuracy (Hz) 1 - 10 Hz
  - DGPS 50cm accuracy (Hz) 2 - 40 Hz
- Velocity 0.1m/sec
- Protocol NMEA-0183 V3.01
  - GPGGA, GPGLL, GPGSA, GLGSA, GPGSV, GLGSV, GPVTG, GPRMC
- SkyTraq raw data binary

## Precision

- 2.5m CEP autonomous mode
- Submeter accuracy - DGPS mode
- Decimeter accuracy - Float RTK mode
- Centimeter accuracy - RTK mode
- Time to First Fix 1 second hot start under open sky (average)
- 28 seconds warm | cold start under open sky (average)

## Mechanical



- 150mm X 75mm 200g
- Tripod mount 2m
- Operating temperature -20.. + 85 C
- RoHS compliant
- IP 67

## Power

- 230mW low power consumption
- 12v
- 10 h autonomous work
- Replacement accumulator

## Interfaces

- Wireless interfaces LoRa/WiFi/Bluetooth
- Triple interfaces RS232/CAN/USB