

RTK base station Datasheet

Base station for RTK fixed solution on 10 km



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

Features

- Multi Constellation type
GPS+Glonass+SBAS
- Fast RTK Convergence Times
- Wireless interfaces LoRa/WiFi/Bluetooth
- 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
 - Up to 20Hz carrier phase raw measurement
- 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)
- 90sec to 1st ambiguity fixed solution at 7Km baseline
- Reacquisition 1s

Mechanical



- 150mm X 75mm 200g
- Operating temperature -20.. +65 C
- RoHS compliant
- IP 65

Power

- 230mW low power consumption
- 16 h autonomous work
- Replacement accumulator

Interfaces

- Wireless interfaces LoRa/WiFi/Bluetooth
- Interfaces RS232 (115200)