

## Multi-band RTK GNSS receiver



Multi-band RTK GNSS receiver. (???????????? / ?????????? GPS) with centimeter precision -?????? ?? ??????????? - PPP ????????? -  
???????????? 3.5G ????? - 22 ??? ? 1 ????? - ?????? ????? / base station. Positioning Static H: 4 mm + 0.5 ppm V: 8 mm + 1 ppm PPK  
H: 5 mm + 0.5 ppm V: 10 mm + 1 ppm RTK H: 7 mm + 1 ppm V: 14 mm + 1 ppm Convergence time ~5 s typically

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Multi-band **RTK GNSS receiver** with centimeter precision (???????????? / ?????????? GPS)

- ??????? ?? ?????????????
- PPP ?????????? - ????????????? 3.5G ?????
- 22 ??? ? 1 ?????
- ?????? ????? / base station

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?? Reach RS2 ?????? ?????? ??? ? ???? ???? ????????????? ???? ?????? ?????? ?????? ?????? ???? ???? ????????? ?????????? ? ???????  
????????? ?????? ?? ????????????? ???? ????????????? ???? ???? 60 ??? ???? RTK ??? 100 ??? ???? ?????????? PPK.

GPS, GLONASS, BeiDou, Galileo QZSS  
L1OF, L2OF, L1C / A, L2C,E1B / C, E5b, B1I B2I

**3.5G**

Reach RS2 3,5 GHz modem HSPA 2G backup NTRIP, Internet

**PPP**

OPUS, CSRS-PPP, AUSPOS PPP RINEX

**base station**

RS2 NTRIP / TCP LoRa, RS-232

**22**

16 3G rover, USB

**Specifications**

**Mechanical**

- Dimensions 126x126x142 mm
- Weight 950 g
- Operating t° -20...+65 °C
- Ingress protection IP67

**Electrical**

- Autonomy 16 hrs as 3.5G RTK rover, 22 hrs logging
- Battery LiFePO4 6400 mAh, 6.4 V
- External power input 6–40 V
- Charging USB Type-C 5 V, 2 A
- Certification FCC, CE

**Positioning**

- Static H: 4 mm + 0.5 ppm

- V: 8 mm + 1 ppm
- PPK H: 5 mm + 0.5 ppm
- V: 10 mm + 1 ppm
- RTK H: 7 mm + 1 ppm
- V: 14 mm + 1 ppm
- Convergence time ~5 s typically

**Connectivity**

- LoRa radio
- Frequency range 868/915 MHz
- Power 0.1 W
- Distance Up to 8 km
- 3.5G modem
- Regions Global
- Bands Quad-band, 850/1900, 900/1800 MHz
- SIM card Nano-SIM
- Wi-Fi 802.11b/g/n
- Bluetooth 4.0/2.1 EDR
- Ports RS-232, USB Type-C

**Data**

Corrections NTRIP, RTCM3  
Position output NMEA, LLH/XYZ  
Data logging RINEX with events  
with update rate up to 20 Hz  
Internal storage 16 GB  
160+ days of logging at 1 Hz

**GNSS**

Signal tracked GPS/QZSS L1C/A, L2C  
GLONASS L1OF, L2OF  
BeiDou B1I, B2I  
Galileo E1-B/C, E5b  
Number of channels 184  
Update rates 10 Hz GPS / 5 Hz GNSS  
IMU

**Emlid** :? ?????? ???? ?? ????????? ?????? ?????????????? ??? ?? board : **Ublox ZED-F9P**  
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