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 ??????????

?? ?????????? ??????? ????????? RINEX ????? ??????? ?? ?? OPUS, CSRS-PPP, AUSPOS ??? ????? ????????? PPP, ???? ?? ???????? ?? ????? ?????? ???????????? ?? ???????? ??????? ?? ??????????? ????? ??? ???. ?????????? ???????????? ??????? RINEX ?? ??? ??????????? ???????? ??? ???? ????? ?? ??????? ????????.

??????? ????? - base station

????????????? ?? RS2 ??? ?? ????????? ??? ???? ??? ?????? ?????. ????????? ???? ??? ??????? ???? NTRIP / TCP ? LoRa, ?????? ?????????? ????? ??? ????????????? ???????????. ???????????? ?????? ??????????? RTCM3 ??? NTRIP. ????????? modem ????????????? ???? RS-232.

22 ???? ?? 1 ???????

????? ??? 22 ???? ????????? ???????? ???? ??? ????????? ????????? ??? ????? 16 ???? ?? 3G rover, ????? ??? ?? ???? ????? - ??? ?????????? ????? ?? ?????????? ???? ??? ????????? ?????????. ?? Reach RS2 ?????? ?? ????????? ??? ???? ???????? ?????? USB ? ??? ??? ?????????? ???? USB-C.

Specifications

Mechanical

- Dimensions 126x126x142 mm
- Weight 950 g
- Operating tº -20…+65 ºC
- 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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