

FieldBee L2 receiver Datasheet



FieldBee is an integrated L1/L2 GNSS RTK receiver and antenna in a single rugged housing. With accuracy 1 cm. Supports NMEA-0183, RTCM 3.3 protocols.

Benefits :

- Concurrent reception of GPS, GLONASS, Galileo and BeiDou;
- Multi-band RTK with fast convergence times and reliable performance;
- Wireless interfaces LoRa 868 MHz /WiFi/ Bluetooth;
- CAN and RS232 interfaces;
- Regular Upgrades.

GNSS :

- Carrier Phase RTK processing;
- 184 channels GNSS engine;
- GPS L1C/A L2C, GLO L10F L20F, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L2C;
- Update Rate. 1 - 20 Hz. The highest navigation rate can limit the number of supported constellations;
- Velocity accuracy: 0.05 m/sec;
- Heading accuracy: 0.3 deg;
- TPV output: NMEA-0183 V3.01
GPGGA, GPGLL, GPGSA, GLGSA, GPGSV, GLGSV, GPVTG, GPRMC;
- Correction input: RTCM 3.3.

Precision :

- RTK 0.01 m + 1 ppm CEP;
- Autonomous mode 2.5m CEP;
- First RTK Fix < 60 sec. It depends on atmospheric conditions, baseline length, GNSS antenna, multipath conditions, satellite visibility;
- Reacquisition 2s;
- Tilt compensation in range +/-15 deg accuracy 1 deg. (Available from Oct. 2020)

Mechanical :



- 150mm X 75mm 200g;
- Operating temperature -20.. +65 C;
- RoHS compliant;
- IP 67.

Power :

- 9v-36v, 4W power consumption;
- Optional - 8 h autonomous work;
- Optional - Replaceable battery 18650x2;
- Optional - CAN.

Interfaces :

- WiFi 2.4Ghz;
- Bluetooth 2.1 SPP;
- RS232(19200..115200);
- Optional - LoRa 868/915 Mhz 2.5 km open air.

Applications :

- Tractor guidance;
- Autosteer;
- Soil sampling;
- Scouting;
- Mapping.