

# FieldBee L1 RTK GNSS Base station

## Datasheet

### BENEFITS

- 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 the open sky (average);
- 28 seconds warm, cold start under the 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;
- IP65.

### POWER

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

### INTERFACES

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