



Perfect Positioning for Success!

# High-Performance RTK GNSS Receiver

# PozStar P5

Perfect Positioning for Success



- The Latest GNSS Module
- 1408 channels
- Compact and Rugged design
- The reliable and fast fix time
- The high accuracy
- Supported by its own field APP, PozPad
- Multi-language Support
- MIL-STD-810H Certified

[www.pozstar.com](http://www.pozstar.com)



## The Pozstar's own GNSS Main Board

- High-precision design based on GNSS System-on-Chip
- The latest GNSS module
- 1408 channels
- Receiving all GNSS satellites and all kinds of satellites
- Independent tracking of various frequencies
- Interference measurements of unwanted frequencies



## Hardware components

- 4 LEDs on the front panel
- Radio antenna connector used within 410 to 470 MHz frequency
- 5-pin serial port for external radio system connectivity and NMEA data output
- USB C-Type port for charging



## Light weight and Compact design

- 135mm x 88.2mm size for improved portability
- Light weight 825g
- Die-casting technique
- Compact & Rugged all-in-one design



## IMU technology of PozStar™ P5

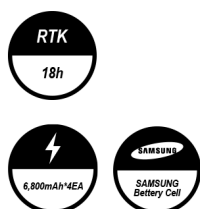
- Supporting tilted measurement
- Fast and precise surveys
- Fast initialization and accurate measurements
- Up to 60° inclination
- Easy IMU calibration for flexible and convenient tilt measurements

## High-quality components

- High-quality SAMSUNG lithium-ion battery
- 6,700mAh battery pack structure for long-term use
- Elastomer dual construction
- Power coating
- MIL-STD-810H Certified
- IP67 grade

## Android-based Field Software, PozPad

- Surveying only by Android smartphones or tablets
- Collecting control and surveying data for surveying, map input, and drawing operations
- Graphic interfaces and intuitive menu settings
- English and Korean language
- Bluetooth remote control connections
- Customizing softwares

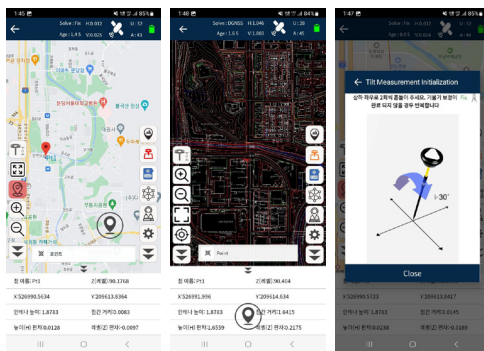


## Designed for high durability

- Die-casting technique
- Shielding structure for safe protection of the main board
- Elastomer dual construction to withstand 2 meter drop shocks
- Powder coating that has better scratch resistance and hardness
- Excellent dustproof and waterproof performance with IP67 grade



- Mapping operation - CAD function, real-time data collection, altitude control (supporting Google Map, Naver Map)



- Checking out the real-time: location information, satellite map, satellite list

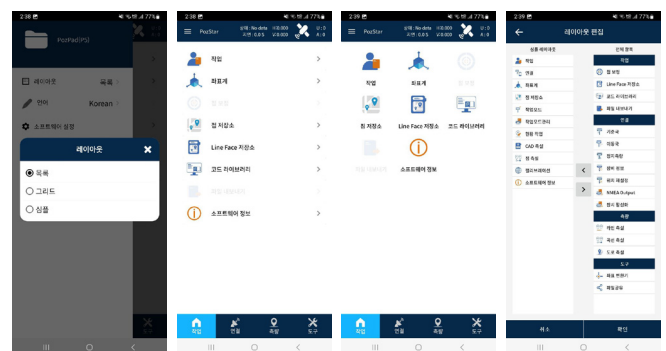


## Staking out

- staking out with CAD engine
- alarm signal when the stakeout point is approached



- Allowing users to select options fit for their work



## Optional: supporting SurPad APP



We are the only commercial supplier of RTK GNSS receivers in Korea that actually manufactures what it sells. The effort of PozStar P5 enables it to immediately reflect the feedback from its users and give good after-sales services to customers. All processes of the PozStar P5's softwares and hardwares are being made from its initial development to design, mold, and production in Korea. PozPad, its Android-based data collection software, ensures high quality and high work efficiency for users. We guarantee PozStar P5's high quality and your satisfaction is our top priority.

| Performance |   |
|-------------|---|
| Channels    | 1408 channels                                       |
| GPS         | L1 C/A, L1C, L2P(Y), L2C, L5                        |
| BDS         | B1I, B2I, B3I, B1C, B2a, B2b                        |
| GLONASS     | G1, G2, G3  |
| GALILEO     | E1, E5a, E5b, E6                                    |
| QZSS        | L1, L2, L5  |
| SBAS        | WAAS, GAGAN, MSAS, EGNOS, SDCM, BDS (L1/L5 Support) |
| NavIC       | L5  |

| GNSS Accuracy              |                           |
|----------------------------|---------------------------|
| Cold start                 | < 12 seconds              |
| Warm start                 | < 4 seconds               |
| RTK signal initialization  | > 99.9 %                  |
| Update rate                | 20 Hz                     |
| Static and fast static     | - H: 3 mm + 0.5 ppm (RMS) |
|                            | - V: 5 mm + 0.5 ppm (RMS) |
| RTK                        | - H: 0.8 cm + 1 ppm (RMS) |
|                            | - V: 1.5 cm + 1 ppm (RMS) |
| Standard point positioning | - H: 1.5 m (RMS)          |
|                            | - V: 2.5 m (RMS)          |
| Code differential          | - H: 0.4 m (RMS)          |
|                            | - V: 0.8 m (RMS)          |
| SBAS                       | - H: 0.3 m (RMS)          |
|                            | - V: 0.6 m (RMS)          |
| Correction data            | RTCM V3.X, RTCM2          |

| Power Supply            |   |
|-------------------------|---|
| Power consumption       | 2.2 W (depending on user settings)                  |
| Li-ion battery capacity | Built - in - rechargeable<br>6,700 mAh Samsung cell |
| Operating time          | RTK Rover: 12 h                                     |
|                         | Static: 18 h  |
| External power          | 5 V / 3 A   |

| Hardware           |  |
|--------------------|--|
| Size               | 135 x 135 x 88.2 mm  |
| Weight             | 825 g  |
| Speaker            | 1 W (multilingual support)   |
| Environment        | Operating: -40 °C to +65 °C<br>(-40 °F to +149°F)                              |
|                    | Storage: -40 °C to +85 °C<br>(-40 °F to +185 °F)                               |
| Humidity           | 100 %  |
| Ingress protection | IP67 waterproof and dustproof, protected from temporary, immersion to depth 1m |
| Durability         | Tested to MIL-STD-810H (U.S. military standard for environmental durability)   |
| Shock              | 2-meter pole drop  |
| Tilt sensor        | MEMS IMU load compensation   |
|                    | Immune to magnetic disturbance   |
| Front panel        | 4 LEDs   |

| Communication and Data Recording |  |
|----------------------------------|--|
| Wi-Fi                            | 802.11 b/g/n, access point mode                                |
| Bluetooth®                       | LE V4.1  |
| Ports                            | 1 x USB Type-C port (data download, charging, firmware update) |
|                                  | 1 x UHF antenna port   |
| UHF Radio                        | Frequency: 410-470MHz  |
|                                  | Protocol: TRIMTALK, TRIMMK3, TT450, SATEL, DTSCOMM, TRANSEOT   |
| *Receive(RX) only                | Link rate: 4800 bps - 19200 bps                                |
| Data formats                     | RTCM 2.x, RTCM 3.x input and output                            |
|                                  | NMEA 0183 output   |
|                                  | RINEX static formats   |
|                                  | NTRIP client (on PDA network)                                  |
| Data storage                     | 8GB SAMSUNG High-speed memory                                  |