

# FARMNAVIGATOR

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**All in One** RTK



## GNSS RECEIVER FOR SMART FARMING

**All-in-one powerful smart antenna:  
RTK corrections, 4G connectivity,  
telematics!**

- **Multifrequency GNSS receiver**
- **+/- 2 cm pass-to-pass accuracy**
- **Terrain compensation**
- **Embedded 4G modem**
- **NTRIP client for RTK service**
- **1 year of connectivity  
and telematic services on  
[myfarmnavigator.com](http://myfarmnavigator.com)**
- **Automatic firmware update**

# FARMNAVIGATOR All in One RTK

**Advanced positioning technology and telematic services, all in one device!**

FARMNAVIGATOR All in One RTK **combines the most up-to-date GNSS technology**, with **RTK corrections via internet** for enhanced accuracy, and telematic services to monitor vehicle's **localization and telemetry on myfamnavigator.com** cloud.



## IDEAL FOR

High-performance semi-autonomous or autonomous applications that need centimeter level accuracy, even in highly variable terrain:

- **Auto-Steering**
  - **Seeding**
    - **Plowing**
      - **Strip-till**
        - **Planting**
          - **Weeding**





## Centimeter-level accuracy

### Superior tracking for smoother steering and straighter rows

High-precision multi-frequency GNSS receiver for GPS, GLONASS, GALILEO and BEIDOU satellite systems. Thanks to the RTK corrections the positioning reaches centimeter-level accuracy: +/- 2 cm.



## Terrain compensation

### High-precision positioning anywhere

Precision tracking on uneven ground and slopes thanks to the built-in inertial platform and the Terrain Compensation algorithm that correct errors caused by the roll and pitch of the vehicle.



## 4G Connectivity & IoT

### Designed for smart farming applications

All in One RTK includes a powerful inbuilt platform with 4G modem, SIM, NTRIP client and IoT functionality. Ready to connect to [myfarmnavigator.com](https://myfarmnavigator.com) cloud.



## NTRIP ready

### RTK corrections made easy

The embedded and pre-configured NTRIP Client receives RTK connections via the internet from NTRIP services. Simply insert your NTRIP account once and you are ready to go!



## Connected

### 4G connectivity all over Europe

All in One RTK includes 1 Year / 1000 hours of connectivity. 4G GSM connectivity is already included, SIM card embedded.

# My Farmnavigator

## Including 1 YEAR of Telematics Services

### Telemetry and tilt sensor data

The service is included for 1 Year, and can be extended to 3 or 5 years. Register All in One RTK on [myfarmnavigator.com](http://myfarmnavigator.com) in a few simple steps, and start monitoring your vehicles on the cloud!



## NEW DESIGN

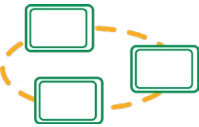
### New rugged housing for longtime outdoor use

The **IP67 rating housing** ensures good waterproof, dustproof, high & low temperature protection, and anti-vibration protection.



The **aerodynamic design** allows the antenna to resist impacts with branches without moving and without being damaged.

Both **magnetic supporting** and **screw mounting** are supported.



## Easy to integrate

### Universal compatibility

All in One RTK is compatible with agriculture terminals using serial communication and NMEA0183 messaging. You can set up All in One RTK with any third-party device, thanks to the included configuration software.

## FARMNAVIGATOR **All in One** RTK

### GNSS RECEIVER FOR SMART FARMING



### Technical Specifications

- Dimensions: 184 x 152 x 55 mm
- Weight: 240g without power cable
- Power cable: 4 m Conxall - DB9
- Steel bracket: 133 x 101 mm
- Triaxial accelerometer + gyro
- Waterproof: IP67
- Supply voltage: 10-35 V DC
- Operating temperature: -20°C / +60°C
- Storage temperature: -30°C / +80°C
- Power consumption: 125 mA max @12V DC (~ 1.5 W)
- 2x Led indicators

### Communication

- GNSS Receiver: GPS + GLONASS + GALILEO + BEIDOU + SBAS
- GNSS frequency band: L1, L2
- GNSS rate: configurable (up to 10Hz)
- RS232 baud rate: configurable (115200 default)
- RS232 protocol: NMEA0183 configurable (GGA, GLL, RMC, GSA, GSV, VTG, ZDA, GST)

### Performance and Connectivity

- RTK accuracy +/- 2 cm
- Integrated NTRIP client
- Automatic connection to IoT server
- Automatic FOTA Updates

