



REACH RS+

RTK GNSS receiver with an app as a controller

Reach RS+ Survey kit



Two Reach RS+ receivers for surveying in RTK and PPK modes. Centimeter accuracy for surveying, mapping and data collection.

Reach RS+ specifications

MECHANICAL

| | |
|------------------------|-----------------------------|
| Ingress protection: | IP67 (water- and dustproof) |
| Size: | 145 x 145 x 85 mm |
| Weight: | 690 g |
| Operating temperature: | -20...+65 °C |

CONNECTIVITY

| | |
|-------------|------------------------|
| Interfaces: | USB, RS232, PPS, Event |
| Radio: | LoRa 862-1020 MHz |
| Wi-Fi: | 802.11 b/g/n |
| Bluetooth: | 4.0/2.1 EDR |

POSITIONING

| | |
|-----------------------|---------------|
| Static horizontal: | 5 mm + 1 ppm |
| Static vertical: | 10 mm + 2 ppm |
| Kinematic horizontal: | 7 mm + 1 ppm |
| Kinematic vertical: | 14 mm + 2 ppm |

ELECTRICAL

| | |
|-----------------------|-----------|
| Battery life: | 30 hours |
| Charging port: | Micro-USB |
| External power input: | 6-40 V |
| Certifications: | FCC, CE |

GNSS

| | |
|--------------------|--|
| Signals: | GPS/QZSS L1, GLONASS G1, BeiDou B1, Galileo E1, SBAS |
| Update rate: | 14 Hz GPS / 5 Hz GNSS |
| Tracking channels: | 72 |
| IMU: | 9DOF |

DATA

| | |
|-------------------|-----------------------|
| Internal storage: | 8 GB |
| Correction input: | RTCM2, RTCM3 |
| Solution output: | NMEA, ERB, plain text |
| Logs: | RINEX2.X, RINEX3.X |

Ihr Emlid-Partner mit Erfahrung im Bereich GIS, mobiles GIS und Vermessung



For survey and navigation with centimeter accuracy

Reach RS+ can deliver centimeter-accurate coordinates over multiple wireless or wired channels making it a universal tool for all kinds of precision-demanding applications.

Base station

Use Reach RS+ to set up your own base station. Stream corrections over the network via NTRIP/TCP or LoRa radio. Record base logs for post-processing.

Correction format: RTCM3.
Log format: RINEX.

Point collection

With Reach RS+ you can create survey projects to manage data collection. When working in the field each point is assigned a custom name and offset. Results can be downloaded from the project list.

Exporting formats: CSV, DXF, GeoJSON and ESRI Shapefile

Point stakeout

Point Stakeout feature available in the app allows you to import a list of points of interest. Follow the app's guidance to reach the exact spot.

Importing formats: DXF, GeoJSON and ESRI Shapefile.

Machinery guidance

Reach RS+ is able to provide precise coordinates over Bluetooth/Wi-Fi to your tablet with a lightbar navigation app. RS232 interface allows to connect Reach RS+ directly to an autosteer system.

Solution formats: NMEA, ERB, plain text.
Compatible apps: MachineryGuide, AgriBus-Navi, Efarmer.

ReachView app

Sleek and intuitive software that turns any smartphone into an advanced field controller for Reach RS+.



Helps with setup

Easily configure correction input, solution output, update rate and satellite systems in use. Manage Wi-Fi and Bluetooth connections.



Status monitoring

ReachView shows current satellite signal strength, constellation visibility forecast, your location on a map and much more.



Surveying tools

Built-in tools for data collection. Record geolocations with specified accuracy. Import and export in industry standard formats.



Log management

Logs are automatically recorded in internal memory. View a list of the logs and download them using the ReachView app.

What's inside

Multi-system support

GPS, GLONASS, BeiDou, Galileo, QZSS, SBAS

Dual-feed antenna

With tight phase center variation

Long range radio

LoRa 868/915 MHz for reliable connection on distances up to 8 km

30 hours battery

LiFePO4 battery, USB charging, external 5-40V input

8 GB of storage

Built-in memory for logs

Field-ready

Rugged casing

Tough polycarbonate shell is specially crafted to protect Reach RS+ from falling and everyday wear.

IP67 certified

Sealed enclosure makes Reach RS+ water- and dustproof allowing it to work in any weather.

-20...+65°C

Industrial grade components ensure smooth operation no matter what the season is.

ReachView is available on:

