



# REACH RS+

RTK GNSS receiver  
with an app as a controller

[emlid.com](http://emlid.com)

**\$799**



## For survey and navigation with centimeter accuracy

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

### 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 6-40V input

#### 8GB of storage

Built-in memory for logs

#### 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 2.0, RINEX 3.0

#### Machinery guidance

Reach RS+ is able to provide precise coordinates over Bluetooth/Wi-Fi to your tablet with a lightbar navigation app. RS-232 interface allows to connect Reach RS+ directly to an autosteer system.

Solution formats:  
NMEA, LLH/XYZ

Compatible apps:  
MachineryGuide, AgriBus-Navi, Efarmer

#### 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

#### 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



## 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, 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.

## 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 dust-proof 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:



# Reach RS+ survey kit

**\$1598**

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	690g
Operating temperature	-20...+65°C

### POSITIONING

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

### GNSS

Signals	GPS/QZSS L1C/A, GLONASS L1OF, BeiDou B1I, Galileo E1-B/C, SBAS
Update rate	14Hz GPS / 5 Hz GNSS
Tracking channels	72
IMU	9DOF

### ELECTRICAL

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

### DATA

Internal storage	8 GB
Correction input	RTCM2, RTCM3
Solution output	NMEA, ERB, LLH/XYZ
Logs	RINEX2.X, RINEX3.X

### CONNECTIVITY

Interfaces	USB, RS-232, PPS, Event
Radio	LoRa 863-928 MHz
Wi-Fi	802.11 b/g/n
Bluetooth	4.0/2.1 EDR

For more information visit [emlid.com](http://emlid.com)