EMLID

REACH RS+

RTK GNSS receiver

Comes with the ReachView 3 app
for iOS and Android

emlid.com

Key features

Multi-system support

Tracks GPS, GLONASS, BeiDou, Galileo, QZSS, and SBAS.

Long range radio

LoRa with frequency range 868/915MHz for reliable connection with distances of up to 8km.

Dual-feed antenna

With tight phase center variation.

Polycarbonate body

An extremely durable material that is used in bulletproof glass makes Reach RS+ impact resistant.

30-hour battery

LiFePO4 battery, USB charging, external 6–40 V input.

Water and dustproof

You can work in dusty areas or under the rain.

-20 °C to +65 °C

Works during the coldest winters and hottest summers.

8GB of storage

Built-in memory for logs.

For surveying and navigation with centimeter precision

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+ provides precise coordinates over Bluetooth/Wi-Fi to your tablet with a lightbar navigation app. The RS-232 interface allows the connection of the Reach RS+ directly to an autosteer system.

Solution formats: NMEA, LLH/XYZ
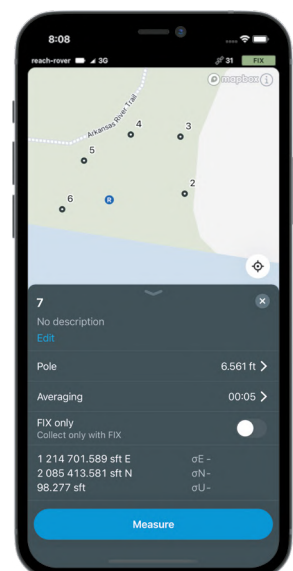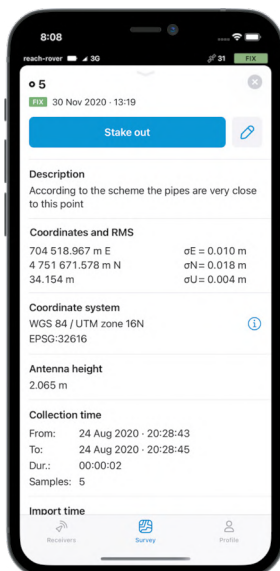Compatible apps: AgriBus-Navi, and Efarmer

ReachView 3 app

ReachView 3 is intuitive data collection software that is available for Android and iOS

With ReachView 3, you can collect and stakeout points using your local coordinate system and control your Reach RS+ unit. Set up a base station, log RINEX data, configure NMEA output — all in one app.

ReachView 3 supports thousands of different coordinate systems worldwide. The selection is based on the EPSG and IGN registries. ReachView 3 has a custom tool for manual coordinate system creation for areas without a predefined coordinate system.

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
Dimensions	145 x 145 x 85 mm
Weight	690 g
Operating temperature	-20 °C to +65 °C

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

Autonomy	up to 30 hours
Charging	Micro USB 5 V
External power input	6–40 V
Certification	FCC, CE
Battery	LiFePO4 3.2 V

DATA

Corrections	NTRIP, RTCM3
Position output	NMEA, LLH/XYZ
Data logging	RINEX with events
	up to 14 Hz
Internal storage	8 GB

GNSS

Signals	GPS/QZSS L1, GLONASS G1,
	BeiDou B1, Galileo E1, SBAS
GPS / GNSS	14 Hz / 5 Hz
Number of channels	72
IMU	9DOF

CONNECTIVITY

LoRa radio	up to 8 km
	868 / 915 MHz
Wi-Fi	802.11 b/g/n
Bluetooth	4.0/2.1 EDR
Ports	RS-232, Micro USB

For more information, visit emlid.com