CMLID



REACH RS3

RTK GNSS receiver with tilt compensation

Multi-band base and rover IMU tilt compensation LTE modem Dual-band radio

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Key features

High-precision IMU Tilt: RTK+2mm+0.3mm/°	Survey with under 20 mm precision at up to 60 degree tilt. Reach RS3 is calibration-free and works out of the box. The receiver is immune to magnetic disturbances, so metal objects and electronics don't affect the accuracy.
Get a Fix in 5 seconds	The receiver gets a cm-accurate solution in ~5 seconds and maintains robust performance even when the sky is partially obstructed or the unit is tilted. Signals tracked: GPS/QZSS, GLONASS, BeiDou, and Galileo.
18 hours of work with tilt compensation	The industrial-grade battery can endure up to 22 hours of logging or 18 hours of work as an RTK rover with tilt compensation. For uninterrupted multi-day operations, simply connect a power bank via USB-C.
RINEX logging and PPP support	Reach RS3 records raw data in the RINEX format for post-processing. Use our free PPK software, Emlid Studio, or any other software with RINEX support. Logs are also compatible with OPUS, AUSPOS, and PPP services.
Built-in LTE modem	Insert a SIM card into Reach RS3 and let it broadcast or receive corrections via NTRIP.
Rugged and compact	The polycarbonate body coated with elastomer makes Reach RS3 impact- resistant and ready for harsh conditions. The receiver is dustproof and waterproof to IP67 with an operating temperature of -20° to 65° C (-4° to 149° F).

Get corrections from CORS, Reach, or third-party base

NTRIP

Work in RTK with VRS or a single baseline CORS network. You can also connect another GNSS receiver with RTCM3 support using Emlid NTRIP Caster.

Dual-band radio

LoRa

868/915 MHz Gets or sends corrections between two Reach receiver—perfect for areas with no internet coverage.

UHF radio

450 MHz

Gets corrections from bases with radios that transmit TRIMTALK[™] 450S—a great option to mix and match receivers in your fleet.

Comes with software for the field and the office



Emlid Flow

The Emlid Flow mobile app manages all field-related tasks, including receiver configuration, RINEX logging, data collection, and stakeout.



- Tilt compensation
- Points and lines
- Coding
- Localization
- Background WMS/WMTS maps
- Sync with up to 3 devices

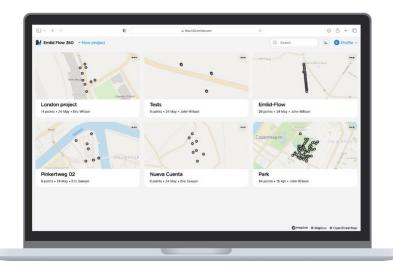






The cloud-based Emlid Flow 360 allows you to access your survey data in a browser and easily prepare, manage, and export your projects.

- Creating custom code libraries
- Adding WMS/WMTS layers
- Satellite map
- Export and import of survey data
- Project management and data sync





The basic features are free. Professional survey tools are available with the Survey plan. Upgrade your Emlid Flow and Flow 360 with a single subscription. Learn more about features and plans.

Expand your fleet with Reach RS3



Reach RS3

1 x Reach RS3 1 x LoRa/UHF antenna 1 x USB cable 1 x Carrying case with strap

Free 3-month subscription to the Emlid Flow Survey Plan

Reach RS3 specifications

POSITIONING

Precision	Static	H: 4 mm + 0.5 ppm V: 8 mm + 1 ppm
	РРК	H: 5 mm + 0.5 ppm V: 10 mm + 1 ppm
	RTK	H: 7 mm + 1 ppm V: 14 mm + 1 ppm
Convergence time		~5 s typically
Tilt compensation		RTK+2mm+0.3mm/°
Signals		GPS/QZSS L1C/A, L2C, GLONASS L1OF, L2OF, BeiDou B11, B21, Galileo E1-B/C, E5b
Number of channels		184
Update rate		Up to 10 Hz
IMU		6DOF

MECHANICAL

Dimensions	126 x 126 x 142 mm
Weight	950g
Operating temperatures	-20 to +65 °C
Ingress protection	IP67

ELECTRICAL

Autonomy	18 hrs as an RTK rover with tilt compensation, 22 hrs of logging
Battery	Li-Ion 5200 mAh, 7.2 V, 37.44 Wh
Charging	USB-C 5 V, 3 A

Dronesurvey Asia

11/F Johnson Industrial Mansion 340 Kwun Tong Road Kowloon, Hong Kong

- T: +852.2333.0992 F: +852.3595.1598
- E: info@dronesurvey.asia
- f DronesurveyAsia
- W: www.dronesurvey.asia
- @DronesurveyAsia
- in Dronesurvey Asia



Reach RS3 Survey Kit

2 x Reach RS3 2 x LoRa/UHF antenna 2 x USB cable 2 x Carrying case with strap

Free 3-month subscription to the Emlid Flow Survey Plan

CONNECTIVITY

LoRa radio		Transmit and receive	
	Frequency range	868/915 MHz	
	Power	0.1W	
	Distance	Up to 8 km	
UHF radio		Receive-only	
	Frequency range	410-470 MHz	
	Protocol	TRIMTALK 450S*	
	Modulation type	GMSK	
LTE modem	Regions	Global	
	Bands	FDD-LTE: 1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 66	
		TD-LTE: 38, 40, 41	
		UMTS (WCDMA/FDD): 1, 3, 2, 4, 5, 6, 8, 19	
		Quad-band, 850/1900, 900/1800MHz	
	SIM card	Nano-SIM	
Wi-Fi		802.11b/g/n	
Bluetooth		4.0/2.1 EDR	
Ports		RS-232, USB-C	
Protocols	Corrections	NTRIP, RTCM3	
	Position output	NMEA, LLH/XYZ	
Data logging	RINEX	, NMEA, LLH/XYZ, UBX	
Internal stora	Internal storage 16 GE		

*TRIMTALK is a trademark of Trimble Inc.





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