



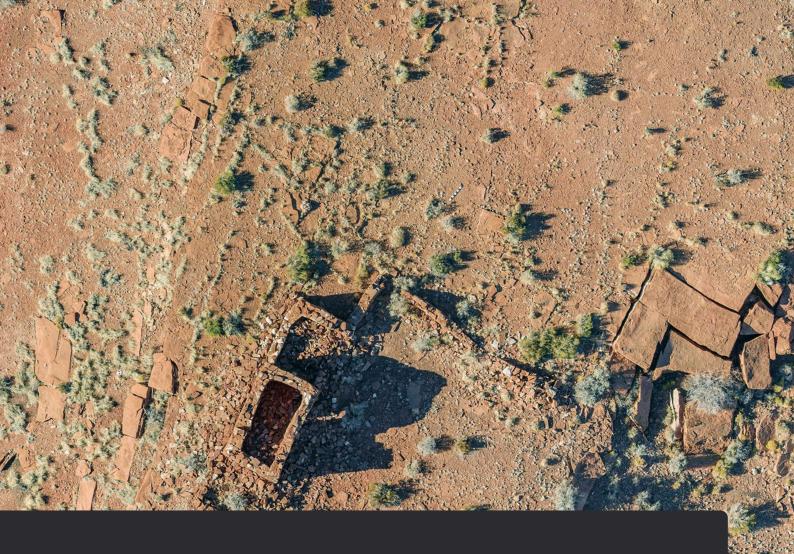
## REACH M2 | M+

RTK GNSS modules for precise navigation and UAV mapping

Starting at

\$265

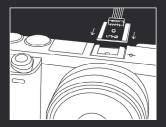
emlid.com



## PPK system for UAV mapping with centimeter accuracy

Reach logs precise tracks and the exact moment when each photo is taken. This allows to cut number of checkpoints and create precise 3D models.

How does it work?



1. Reach connects to the camera hot shoe port which is synchronized with the shutter.



2. Sub-microsecond accurate photo time marks are stored in a raw data RINEX log during the flight.



3. Download the RINEX logs from your airborne Reach module and a base station after the flight.

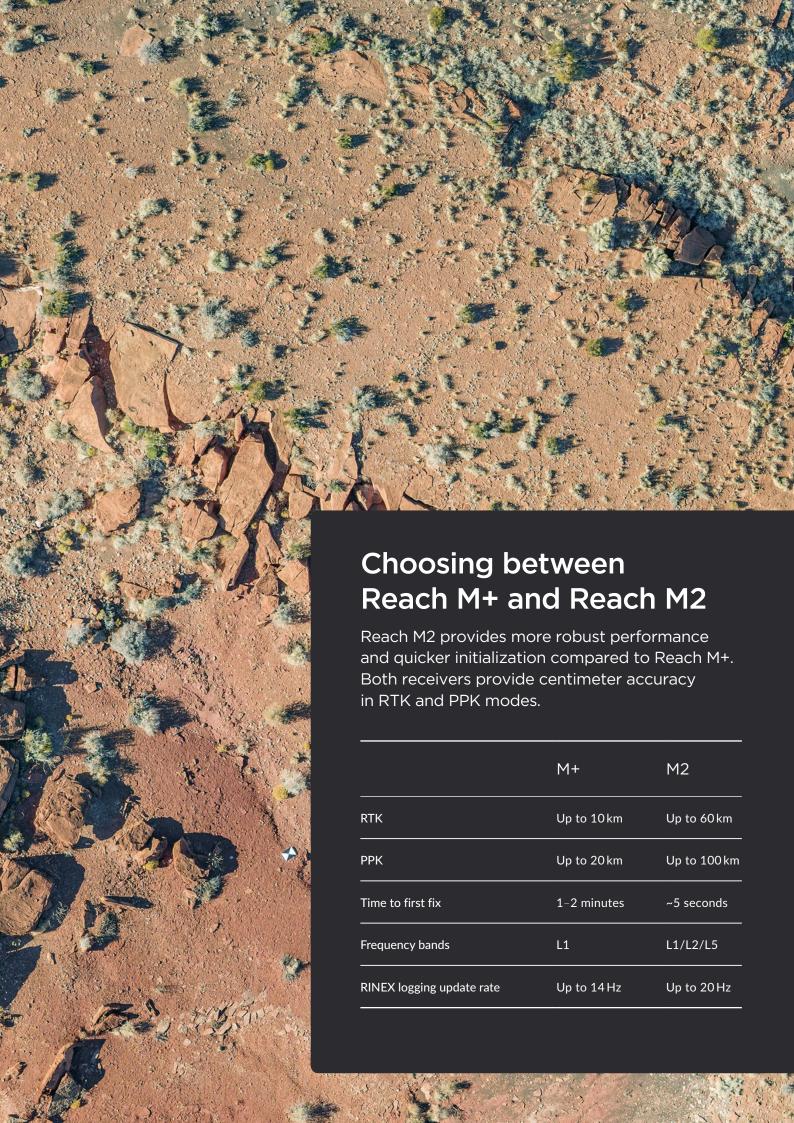


4. Use the free RTKLIB software to process RINEX files and get a list of precise photo coordinates.

Reach is used in drones of:







## Reach M+ Reach M2

## Specifications chart





		\$265		\$450
Mechanical	M+	<b>\$203</b>	M2	\$ <del>4</del> 30
Size	56.4 x 45.3 x 14.6 mm		56.4 x 45.3 x 14.6 mm	
Weight	35g		35g	
Operating temperature	-20+65°C		-20+65°C	
Electrical				
Input voltage on USB and JST-GH connectors	4.75-5.5 V		4.75-5.5V	
Antenna DC bias	3.3 V		3.3V	
Average current consumption at 5 V	200 mA		200 mA	
GNSS	$\mathcal{A}^{\prime}$			
Signals	GPS/QZSS L1C/A,		GPS/QZSS L1C/A, L2C,	
	GLONASS L1OF,		GLONASS L1OF, L2OF,	
	BeiDou B1I,		BeiDou B1I, B2I,	
	Galileo E1-B/C, SBAS		Galileo E1-B/C, E5b	
Update rate	14 Hz GPS / 5 Hz GNSS		20 Hz GPS / 10 Hz GNSS	
Tracking channels	72		184	
IMU	9DOF		9DOF	
Connectivity				
Interfaces	USB, UART, Event		USB, UART, Event	
Wi-Fi	802.11 b/g/n		802.11 b/g/n	
Bluetooth	4.0/2.1 EDR		4.0/2.1 EDR	
Data				
Position output	NMEA, LLH/XYZ		NMEA, LLH/XYZ	
	(RMC, GGA, GSA, GSV)		(RMC, GGA, GSA, GSV)	
Correction input	RTCM2, RTCM3		RTCM2, RTCM3	
Internal storage	8GB		16 GB	
Logs	RINEX 2.X, RINEX 3.X		RINEX 2.X, RINEX 3.X	
Positioning				
Static	H: 5 mm + 1 ppm, V: 10	mm + 2ppm	H: 4 mm + 0.5 ppm, V: 8 r	nm + 1 ppm
Kinematic	H: 7mm + 1ppm, V: 14	mm + 2ppm	H: 7mm + 1ppm, V: 14 m	m + 1 ppm

More information at emlid.com