# **REACH RS2+**

## Technical specifications

#### CONNECTIVITY

UHF LoRa radio	Frequency range	e 868/915 MHz
	Power	0.1W
	Distance	Up to 8 km
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 (V	VCDMA/FDD): 1, 2, 3, 4, 5, 6, 8, 19
	Quad-Band (850/1900, 900/1800 MHz)	
	SIM card	Nano-SIM
Wi -Fi		802.11 b/g/r
Bluetooth		4.0/2.1 EDR
Ports		RS-232, USB Type-C
Data protocols	Corrections	NTRIP, RTCM3
	Position output	NMEA, LLH/XYZ
Data logging	RINEX at update rate up to 10 Hz	
Internal storage		16 G R

#### **POSITIONING**

Precisione	Static	H: 4mm+0.5 ppm V: 8mm+1 ppm
	PPK	H: 5 mm+0.5 ppm V: 10 mm+1 ppm
	RTK	H: 7 mm+1 ppm V: 14 mm+1 ppm
Convergence tim	ie	~5 s typically
Signal tracked	GPS/QZ	SS L1C/A, L2C, GLONASS L1OF, L2OF
		BeiDou B1I, B2I, Galileo E1-B/C, E5b
Number of chann	nels	184
Update rate		Up to 10 Hz
MECHANICA Ingress protection		IP67 water and dustproof
Dimensions		126x126x142 mm
Weight		950g
Operating tempe	rature	-20°C to +65°C
ELECTRICAI	L	
Autonomy		16 hrs as LTE RTK rover
Charging		USB-C 5 V 3 A
External power in	nput	6-40V
Battery		LiFePO4 6400 mAh, 6.4 V

### COMMUNICATIONS AND DATA STORAGE

- 9PIN port: RS-232, PPS, Event
- USB OTG
- LoRa technology: Reliable link on up to 8 km baseline Configurable 862-1020 MHz carrier
- Internal LTE modem: Global, Quad-band (850/1900, 900/1800 MHz)
- Built-in short-range Wi-Fi 802.11 b/g/n, WEP, WPA, WPA2 encryption

- Built-in short-range Bluetooth 4.0/2.1 EDR
- Data storage 16 GB internal memory
- Raw logs in RINEX, UBX
- External Radio Modem connectivity over RS-232/USB OTG
- RTCM 3.x input and output over Wi-Fi, Bluetooth, LoRa, USB, RS-232, NTRIP
- NMEA 0183, ERB output over Wi-Fi, Bluetooth, USB, RS-232
- Emlid Flow app for iOS and Android for configuration and surveying