



Name: Reach RS2+ (RTK GNSS Receiver)

Year of Purchase: 2025

Description:

Reach RS2+ is a multi-band RTK GNSS receiver designed for professional surveying and mapping. It delivers centimeter-level accuracy with fast RTK convergence (about 5 seconds) and supports all major constellations including GPS/QZSS, GLONASS, BeiDou, and Galileo across 184 channels.

Technical specifications

CONNECTIVITY

UHF LoRa radio	Frequency range	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(WCDMA/FDD): 1, 2, 3, 4, 5, 6, 8, 19 Quad-Band (850/1900, 900/1800MHz)
	SIM card	Nano-SIM
Wi -Fi		802.11 b/g/n
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 GB

POSITIONING

Precision	Static	H: 4 mm+0.5 ppm V: 8mm+1 ppm
	PPK	H: 5 mm+0.5 ppm V: 10mm+1 ppm
	RTK	H: 7 mm+1 ppm V: 14mm+1 ppm
Convergence time		~5 s typically
Signal tracked	GPS/QZSS L1C/A, L2C, GLONASS L1OF, L2OF, BeiDou B1I, B2I, Galileo E1-B/C, E5b	

Number of channels	184
Update rate	Up to 10Hz

MECHANICAL

Ingress protection	IP67 water and dustproof
Dimensions	126x126x142mm
Weight	950g
Operating temperature	-20°C to +65°C

ELECTRICAL

Autonomy	16 hrs as LTE RTK rover
Charging	USB-C 5V 3A
External power input	6-40V
Battery	LiFePO4 6400mAh, 6.4V