

Reach RS4 Pro Product Specs

Positioning		
Precision	Static	H: 4 mm + 0.5 ppm V: 8 mm + 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 time		~5 s typically
Tilt compensation		RTK + 2mm + 0.3 mm/°
Signal tracked		GPS: L1C/A, L2C, L5 GLONASS: L1OF, L2OF Galileo: E1-B/C, E5a, E6 BeiDou: B1I, B1C, B2a, B3I QZSS: L1C/A, L1C/B1I, L2C, L5 NavIC: L1-SPS Data, L5-SPS
Number of channels		672
Update rates		Up to 10 Hz
Connectivity		
Emlid radio*		
LoRa radio	Frequency rangy	868/915 MHz
	Power	0.1 W
	Distance	Up to 8 km
UHF radio	Frequency range	410 - 470 MHz
	Protocols	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 TD-LTE: 38, 39, 40, 41 UMTS (UHPS/FDD): 1, 2, 5, 8 Quad-band, 850/1900, 900/1800 MHz
	SIM card	Nano-SIM
Wi-Fi		802.11a/b/g/n
Bluetooth		Bluetooth 5.1 (BR/EDR + LE)
Ports		RS-232, USB Type-C
Data protocols	Corrections	NTRIP, RTCM3
	Position output	NMEA, LLH/XYZ
Data logging		RINEX, NMEA, LLH/XYZ, UBX
Internal storage		16 GB
Imaging***		
Image sensors		1/2.6 in, CMOS, global shutter, Full HD
Field of view	Front camera	H: 64.6°, V: 42.8°
	Bottom camera	H: 63°, V: 42°
Video frame rate		25 fps
Mechanical		
Dimensions		128.6 × 128.6 × 99.3 mm
Weight		920 g
Operating temperatures		-40 to +65 °C
Ingress protection		IP68
Electrical		

Autonomy		16 hrs as RTK rover with tilt, 22 hrs of logging
Battery		Li-Ion 5000 mAh, 7.2 V, 36 Wh
Charging		USB Type-C (PD): 5V—3A, 9V—3A, 12V—3A, 15V—3A

*Use the correct antenna, LoRa or UHF, for your setup.

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