



Multifrequency RTK GNSS receiver zBELL

The RTK GNSS receiver **zBELL** is designed for surveying, mapping and navigation with centimeter precision. Works up to 60 km from the base station in RTK mode. The housing has an IP67 protection class.

FEATURES

Receiver type	184-channel u-blox F9 engine GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L1S L2C, SBAS L1C/A	
Nav. update rate	RTK	up to 15 Hz ¹
Position accuracy²	RTK	0.01 m + 1 ppm CEP
Convergence time²	RTK	< 10 sec
Acquisition	Cold starts	24 s
	Aided starts	2 s
	Reacquisition	2 s
	Sensitivity	Tracking & Nav.
Sensitivity	Cold starts	-148 dBm
	Hot starts	-157 dBm
	Reacquisition	-160 dBm
	Oscillator	TCXO
RTC crystal	Built-in	
Anti-jamming	Active CW detection and removal	
	Onboard band pass filter	
Anti-spoofing	Advanced anti-spoofing algorithms	
Memory	Flash	
Moving base	For attitude sensing and heading applications	
Antenna	Active	
Communication	2x Bluetooth 2.0, USB	
Power	5V, 0.5A slow 1.5A fast	
	10 hours of autonomous work	
	3.5Ah Li-Po battery	
Mechanical	Dimensions (LxWxH)	98 x 98 x 134 mm
	Weight	450 g
	Operating temperature	-20°C to +60°C (-4°F to +140°F)
	Storage temperature	-30°C to +75°C (-22°F to +149°F)
	Mount	5/8 inch

¹ The highest navigation rate can limit the number of supported constellations

² Depends on atmospheric conditions, baseline length, GNSS antenna, multipath conditions, satellite visibility, and geometry



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