

Technical Specification

GNSS Feature	Specification	
GNSS Signal ²	Channels	1408
	BDS	B1I, B2I, B3I, B1C, B2a, B2b*
	GPS	L1 C/A, L1C*, L2P(Y), L2C, L5
	GLONASS	L1, L2, L3*
	GALILEO	E1, E5a, E5b, E6*
	QZSS	L1, L2, L5, L6*
	IRNSS	L5*
	SABS	L1, L2, L5
L-Band	B2b PPP (Only for the Asian-Pacific region)	
Positioning Performance	High-precision static GNSS Surveying	Horizontal: 2.5mm + 0.1ppm RMS Vertical: 3.5mm + 0.4ppm RMS
	Static and Fast Static	Horizontal: 2.5mm + 0.5ppm RMS Vertical: 5mm + 0.5ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	Horizontal: 8mm + 1ppm RMS Vertical: 15mm + 1ppm RMS Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically >99.9%
	Code Differential GNSS Positioning	Horizontal: ±0.25m+1ppm RMS Vertical: ±0.5m+1ppm RMS SBAS: 0.5m (H), 0.85m (V)
	Real Time Kinematic (RTK)	Horizontal: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS Initialization time: Typically <10s Initialization reliability: Typically > 99.9%
	Time to first Fix M-Fix ¹	Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s
	Tilt Survey Performance	Horizontal: RTK+10mm / minute RMS Vertical: RTK+20mm / minute RMS Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5cm accuracy in the inclination of 60°)
Communication	Communication	Bluetooth: 4.2 / 2.1+EDR, 2.4GHz Wi-Fi: frequency 2.4GHz, Supports 802.11 b / g / n Frequency: 410-470MHz Channel: 116 (16 scalable) Transmitting power: 0.5W / 1W / 2W adjustable
	Internal UHF Radio	Supports multi-communication protocols: TRIMTALK450ST, RANSEOT, CHC, HI-TARGET, TRIMMARK III, TRANSEOT, SOUTH 9600, SOUTH 19200
Physical	Internal battery	Internal 7.4V / 6800mAh lithium-ion rechargeable battery RTK Rover (Network) for 12 hours Static: up to 15 hours
	External power	Power consumption: 4.2W Dimensions (W×H): 132mm×67mm Charging: using standard smartphone chargers or external power banks Weight: ≤0.8kg (includes battery) Data storage: 8GB ROM internal storage
Control Panel	LED Lamp	Satellite, Signal, Power
	Physical button	1
Environment	Water / Dustproof	IP68
	Shock and vibration	Designed to survive a 2m natural fall onto concrete
	Humidity	100%, condensing
	Operation temperature	-30°C ~ +70°C
I / O Interface	Storage temperature	-40°C ~ +80°C
	1 × USB port, Type C	
Data Formats	1 × SMA antenna connector	
	Output rate	1Hz-20Hz.
	Static data format	GNS, Rinex
	Network model	VRS, FKP, MAC; supports NTRIP protocol
	CMR& RTCM	CMR, RTCM 2.x, RTCM 3.0, RTCM 3.2
Navigation outputs ASCII	NMEA-0183	

1.*Description and Specifications are subject to change without notice.

2.*BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.



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M6 GNSS RECEIVER



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