



Meridian

M6 Plus

GNSS receiver



M6Plus GNSS receiver is an extremely lightweight, full-featured, intelligent GNSS receiver system equipped with an integrated full-frequency antenna and advanced multi-channel RTK engine, built-in radio, and 32GB internal storage, allowing users to attain accurate, reliable solutions.

Its powerful RTK algorithm makes M6Plus easy to get fixed solutions in the most demanding environments, brings you to focus on your surroundings and not the bubble to measure the points that previously could not be measured, making your stake out more efficiently and conveniently than ever before with increased speed, safety and comfort and greatly improving your working efficiency.



Multi Constellation

M6Plus provides an excellent onboard real-time navigation solution with high accuracy. Multi-satellite signals (GPS, GLONASS, BEIDOU, GALILEO, QZSS, IRNSS, L-Band) are included.



Powerful IMU Feature

Equipped with 120 ° calibration-free IMU technology in a small body, extending the M6Plus's application range to locations that traditional RTK systems cannot reach, opening up new horizons for product applications.



4G Based solution

Equipped with 4G module, M6Plus offer a longer baseline working possibility.



Palm Size

The palm-sized RTK (Real-Time Kinematic) system combines elegance with precision, offering a compact solution for accurate positioning on-the-go.



Powerful Battery

With 7.2V 7000mAh and the quick-charge capability, supports you in working more than 26hours and greatly saves your time.

Meridian M6Plus Specification

GNSS Signal	Channel	1408
	BDS	B1I, B2I, B3I, B1C, B2a, B2b*
	GPS	L1C/A, L1C, L2P(Y), L2C, L5
	GLONASS	L1, L2, L3*
	GALILEO	E1, E5a, E5b, E6*
	QZSS	L1C/A, L1C, L2C, L5, L6*
	SBAS	L1, L5*
	NavIC(IRNSS)*	L5
	L-band	B2b PPP (Only for the Asian-Pacific Region) & HAS*
	Data Format	CMR, CMR+, RTCM2.X, RTCM3.X
	Data Output	NMEA-0183, RINEX, DAT
	Data Updating Rate	Up to 20Hz
	Time to Recapture	<1s
	Cold Start	<40s
Positioning Performance	Single Point Positioning (RMS)	Horizontal: 1.5m Vertical: 3.0m
	DGPS (RMS)	Horizontal: 0.4m Vertical: 0.8m
	Real-Time Kinematic (RMS)	Horizontal: ±(8mm+1ppm)
		Vertical: ±(15mm+1ppm)
	Speed Accuracy (RMS)	0.03m/s
	Static Accuracy (RMS)	Horizontal: ± (2.5mm+1ppm)
		Vertical: ± (5mm+1ppm)
	Time Accuracy (RMS)	20ns
	Speed Accuracy	≥0.03m/s
Communication	Tilt Compensation Accuracy	≤2cm(Tilt Angle≤60°, Up to 120°)
	IMU Update Frequency	200Hz
	Bluetooth	SPP3.0+BLE5.0 Dual Mode, 2.4 GHz@ +6 dBm
	WiFi	802.11 a/b/g/n 5.0GHz
	Cellular	LTE TDD: B34/38/39/40/41
		LTE FDD: B1/3/5/7/8/20/28
		WCDMA: B1/5/8
	Storage	GSM: B850/900/1800
		32GB
Battery		Transmitting power: 2W(33±1dBm) 1W(30±1dBm)
		Frequency: 410~470MHz
	Internal Radio	Protocol: SOUTH, TRIMTALK 450S, TRIMMK III, TRANSEOT, SATEL, MERIDIANLINK
		Air Baud Rate: 9600, 11000, 19200
	Specifications	7.2V 7000mAh Lithium-ion Rechargeable Battery
Environment	Operating Times	RTK Rover: Up to 28 hours (Typical Power Consumption)
		Static: Up to 40 hours (Typical Power Consumption)
	Charging	Support USB PD 15V/2A (Supports Quick Charging Adapter)
	Operating Temperature	-40°C~+85°C
Physical	Storage Temperature	-55°C~+85°C
	Anti-seismic	2m Pole Drop Onto Concrete
	Dust & waterproof	IP68
	I/O Interface	1× USB type-C port; 1 × TNC antenna port; 1× SIM card slot;
		1 × 5 pin LEMO port
	Dimensions	125mm×125mm×79mm
	Weight	≤699g

*All specifications are subject to change without notice.

(1) Compliant, GLONASS L3, Galileo E6, Galileo E6 High Accuracy Service (HAS), BDS B2b and SBAS L5 will be provided through future firmware upgrade.

(2) Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. PPP accuracy is subject to the region, environment, and convergence time. High-precision static requires a minimum of 24 hours of long-term observation and precise ephemeris.



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