

Technical Specifications

GNSS Performance	Satellites Tracking	GPS: L1C/A, L1P, L1C, L2P, L2C,L5
		BDS: B1I, B2I, B3I, B1C, B2a, B2b, ACEBOC
		GLONASS: G1, G2, G3
		GALILEO: E1, E5a, E5b, E6, ALTBOC
		QZSS: L1C/A, L1C, L2C, L5, LEX
		IRNSS: L5
		SBAS: L1, L5
		L-Band (Optional)
	Channel	800/1408 Channel
	Warm Start	From 2 - 8 seconds
	Initialization Reliability	≥ 99.9%
	Update Rate	10Hz – 50Hz
	Operation System	Linux
	Internal Memory	32GB
Power Supply	Battery and Voltage	Pin Lithium-ion, 7.2V – 13.600 mAh show 4 led
		Working Time
		Charging Time
Internal Radio	Type	TX & RX
	Frequency Range	410 ~ 470 MHz
	Channel Spacing	12.5 KHz / 25 KHz
	Transmit Power	1W/2W(External radio 35W)
	Operation Range	3-5km Urban, 15km Field
	Protocol	Satel, PCC, TrimTalk 450S, TrimMark III, South, HiTarget, Geotalk,Geomark
System	Bluetooth	Built-in, V2.1 + EDR/4.1Dual
	Wifi	802.11 b/g/n
	SIM Card	Yes
	Port 5-Pin	Yes
	Port Type C	Yes
	Port TNC	Yes
	Web UI	Monitor machine condition.
		Update Software.
		Change Working mode. Download data.
	NMEA Output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary
	Data Calibration	CMR, CMR+, RTCM2, RTCM3, RTCM32
	IMU	With support, maximum 90 degree
	Operating Temperature	-30 °C~ +65 °C
	Storage Temperature	-40 °C ~ +80 °C
	Water/dust Proof	IP68
	Shock Proof	Still alive if you fall from a 2m pole to the concrete floor
	Water Proof	Still work at a depth of 1.2m
	Anti-vibration	Yes
	Moisture Resistance	100%

*Description and Specifications are subject to change without notice.
1.Compliant, but subject to availability of IRNSS and Galileo commercial service definition. IRNSS L5 and L-Band are optional.
2.Accuracies are dependent on GNSS satellite availability.



Meridian M5 GNSS RTK System



M5 GNSS RTK System

M5 GNSS receiver is an extremely lightweight, full-featured, intelligent GNSS receiver system equipped with an integrated new-generation full-frequency antenna and advanced multi-channel RTK engine, build-in radio and 32GB internal storage, allowing users to attain accurate, reliable solutions.



Multiple constellation and frequency tracking, powerful RTK engine, calibration-free tilt compensation IMU technology makes receivers easy to get fixed solution in 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.



Features

Multi Constellation

M5 provides an excellent on board real time navigation solution with high accuracy. Multi Satellites signals (GPS, GLONASS, BDS, GALILEO, QZSS, SBAS, IRNSS, L-Band) are included.

User-friendly Web UI

Through WiFi connection, users can easily configure work modes, download data, upgrade firmware and check device status via web UI.

Enhanced 90° Tilt IMU

Equipped with calibration-free IMU, support up to 60° tilt angle within 2cm accuracy, which improves the working efficiency by more than 20%, 90° tilt angle optional.

Powerful Battery

With 13600mah& the quick-charge capability, support you to working more than15 hour and greatly saving your time.

Rugged Housing

With IP68waterproof & dustproof design and magnesium-aluminum alloy housing.