MAX5

5W Base, Unleash 25km Range

| 1.39" touch screen | 5W UHF radio | 25km Working range | 13200mAh Long battery life | 1408 channels |

SATELLITES TRACKING

Channels	1408
GPS	L1C/A, L2C, L2P(Y),L5
GLONASS	L1,L2,L3*
Galileo	E1, E5a, E5b, E6
BDS	B11, B21, B3l, B1C, B2a, B2b*
QZSS	L1C/A, L1C, L2C, L5
NavIC/IRNSS	L5
SABAS	L1,L5*
L-Band	B2B-PPP/E6-HAS

ACCURACY

Real time kinematics (RTK)	H: 8mm + 1 ppm RMS V: 15mm+ 1 ppm RMS Initialization time:<5s(typical) Initialization reliability:>99.9%
Post-processing kinematics (PPK)	H: 2.5mm + 0.5ppm RMS V: 5mm + 0.5ppm RMS
PPP	H: 10cm RMS|V: 20cm RMS
DGPS	H: 0.4m RMS|V: 0.8m RMS
Single Point	H: 1.5m RMS|V: 2.5m RMS
Position Frequency	1HZ 2HZ 5HZ 10HZ 20HZ 50HZ
Time to first fix	Cold start<45s Hot start<10s Signal re-acquisition<1s
IMU tilt angle	0-120°
IMU tilt survey accuracy	≤2cm within 60° tilt angle

ENVIRONMENTS

Working temperature	-45°C to +75°C
Storage temperature	-55°C to +85°C
Humidity	100% Non-condensing
Waterproof & Dustproof	IP67
Drop	Survive a 2-meter pole-drop
Vibration	IK08

COMMUNICATION

UHF radio	• 5W Tx/Rx, 410-470 MHz • Working range is 25km in ideal environments with lora & 5W
Protocal	TT450,TRIMMARK3,SOUTH,LORA Link rate :9600bps to 19200bps
Wifi	802.11b/g/n/ac Hotspot/Data Link
Bluetooth	Bluetooth 5.2 classical/ BLE proprietary dual-mode
NFC	NFC touch pairing
WebUI	Accessible via Wi-Fi
4G Cellular	• Integrated full frequency multi band 4G modem • Supports LTE-TDD/LTEFDD/WCDMA/ CDMA2000/UMTS/HSPA+/GSM/GPRS/EDGE
I/O port	• 1xUSB Type-C port (Data download / Charging) • 1x Top Antenna port(UHF antenna interface) • 1xSim card slot (Supports Nano-sim) • 1x5-pin Lemo port (RS-232)
Data formats	RTCM 2.X, RTCM 3.X, RINEX, NMEA 0183 output,VRS,NTRIP
Data storage	32GB high speed memory

HARDWARE

Size	152mm(W) 103mm (H) 6inch(W) 4inch(H)
Weight	<1.1kg(2.2lb)
Front panel	1.39" OLED touchscreen

ELECTRICAL

Battery	Internal Li-on Battery 7.2V 13200mAh
Charging specs	USB Type-C fast charging
Operation time	Rover (CORS Mode):36 hours Base (Standard Protocol Mode) :8 hours
Battery Option	27000mAh battery bar

MAX 5

The Max 5 GNSS Receiver redefines professional surveying by integrating advanced technology into a compact, all-in-one device.

Equipped with a 1.39-inch high-definition touchscreen, a 5W + LoRa long-range radio module, and a high-capacity built-in battery, Max 5 delivers centimeter-level RTK accuracy up to 25km. By eliminating the need for external radios, batteries, and cables, it streamlines field operations and improves reliability. Optimized for complex, signal-challenged, and remote environments, Max 5 enables surveyors to work with confidence, efficiency, and precision.

1.39"

25km

13200mAh

1408

PRODUCT FEATURES

1.39" HD touchscreen

The Max 5's 1.39-inch HD touchscreen provides direct access to all functions, enabling real-time status monitoring and on-site parameter adjustments. This intuitive interface reduces setup time and minimizes errors for more efficient and accurate fieldwork.
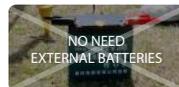
Long range UHF radio

25KM

Max5 integrated 5W + LoRa radio module delivers reliable, long-range RTK coverage up to 25 km. It ensures stable base-rover communication in challenging environments, replacing external radios for simpler setup and consistent centimeter-level accuracy.

Long battery life

Max 5 built-in 13200mAh battery supports up to 8 hours of base station operation, enabling extended field missions. With optional external battery bar for ultra-long deployments, it ensures uninterrupted power in remote areas, reducing downtime.

Integrated rugged design

NO NEED RADIOS

NO NEED CONNECTION CABLES

NO NEED EXTERNAL BATTERIES

The Max 5 integrates all essential GNSS functionalities into a compact,no need external batteries, radios, or connection cables, This simplifies deployment, reduces errors, and enhances portability for faster, more focused fieldwork.

Full satellite tracking

The Max 5 features 1408 channels, supports GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS, and PPP for reliable RTK corrections. It ensures precise measurements and stable performance even in challenging environments like urban canyons or dense foliage.