

SATELLITES TRACKING

Channels	1408
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2, L3*
Galileo	E1, E5a, E5b, E6
BDS	B1I, B2I, B3I, 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
Protocol	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	• 1x USB Type-C port (Data download / Charging) • 1x Top Antenna port (UHF antenna interface) • 1x Sim card slot (Supports Nano-sim) • 1x 5-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



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