SPECIFICATIONS

GNSS Performance ⁽¹⁾		Hardware	
Channels	1408 channels	Size (D x H)	Ф 152 x 81 mm (Ф 5.98 x 3.19 in)
GPS	L1C, A, L2C, L2P(Y), L5	Weight	1.15 kg (2.54 lb)
GLONASS	L1, L2, L3	Front panel	1.1" OLED Color Display 2 LED, 2 physical buttons
Galileo	E1, E5a, E5b, E6*	Tilt sensor	Calibration-free IMU for pole-tilt
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b		compensation.
QZSS	L1, L2, L5, L6*		Immune to magnetic disturbances E-Bubble leveling.
PPP	B2b-PPP		Cameras
SBAS (EGNOS Support)	L1, L5		Global shutter with 2 MP & 5 MP
GNSS A	Accuracies ⁽²⁾	Sensor pixels	75°
Real time kinematic (RTK)	H: 8 mm + 1 ppm RMS	Field of view	
	V: 15 mm + 1 ppm RMS Initialization time: <10 s Initialization reliability: >99.9%	Video frame rate Image group capture	25 fps Method: video photogrammetry. Rate: typically 2 Hz, up to 25Hz.
Post-processing kinematic (PPK)	H: 3 mm + 1 ppm RMS V: 5 mm + 1 ppm RMS		Max. capture time: 60s with an image group size of appr. 60MB.
Post-processing static	H: 2.5 mm + 0.5 ppm RMS V: 5 mm + 0.5 ppm RMS	Illumination	Starlight-grade camera. OmniPixel®-GS technology.
Code differential	H: 0.4 m RMS V: 0.8 m RMS		Maintain full color at illumination levels as low as 0.01 lux.
Autonomous	H:1.5 m RMS V: 2.5 m RMS	Cor	nmunication
Visual survey	Typical 2~4 cm, range 2~15 m	SIM card type	Nano-SIM card
Positioning rate (3)	1 Hz, 5 Hz and 10 Hz	Network modem	Integrated 4G modem:
Time to first fix (4)	Cold start: < 45 s, Hot start: < 10 s Signal re-acquisition: < 1 s	Notwork modern	TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
IMU update rate	200 Hz	Wireless connection	NFC for device touch pairing
Till angle	0-60°	Wi-Fi	Wi-Fi IEEE 802.11a/b/g/n/ac,
RTK tilt-compensated	Additional horizontal pole-tilt uncertainty typically less than 10 mm + 0.7 mm/° tilt	Bluetooth [®]	access point mode 5.0 and 4.2 +EDR, backward compatible
Environments		Ports	1 x 7-pin LEMO port (RS-232)
Temperature	Operating: -40°C to +65°C (-40°F to +149°F) Storage: -40°C to +85°C (-40°F to +185°F)		1 x USB Type-C port (external power, data download, firmware update) 1 x UHF antenna port (TNC female
Humidity	100% non-condensation	Built-in UHF radio	Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W to 2 W
Ingress protection	IP67 (according to IEC 60529)		Protocol: CHC, Transparent, TT450
<u> </u>			Satel Link rate: 9 600 bps to 19 200 bps
Drop Vibration	Survive a 2-meter pole-drop Compliant with ISO 9022-36-08 and MIL-STD-810G- 514.6-Cat.24.		Range: Typical 3 km to 5 km, up to 15 km with optimal conditions
Waterproof and breathable membrane	Prevent water vapor from entering under harsh environments	Data formats	RTCM 2.x, RTCM 3.x, CMR input / output
Electrical			HCN, HRC, RINEX 2.11, 3.02 NMEA 0183 output
Power consumption	UHF/ 4G RTK Rover w/o camera:	_	NTRIP Client, NTRIP Caster
	Typical 2.8 W Visual Stakeout/Visual Survey:	Data storage	32 GB internal memory. Support 128 GB external expansion
Li-ion battery capacity	Typical 4 W Built-in non-removable battery	· · · · · · · · · · · · · · · · · · ·	h Laws and Regulations
E. Ion battory dapasity	9,600 mAh, 7.4 V	International standards	NGS Antenna Calibration, IEC 62133-2:2017+A1, IEC 62368-
Operating time on internal battery ⁽⁵⁾	UHF/ 4G RTK Rover w/o camera: up to 34 h Visual Stakeout/Visual Survey: up to 24 h UHF RTK Base: up to 16 h Static: up to 36 h	× 11.0 0	1:2014, UN Manual Section 38.3
External power input	9 V DC to 24 V DC		t notice. S ICD, Galileo and QZSS commercial service definition. Galileo irmware upgrade. (2) Accuracy and reliability are determined un
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