

i73+ SPECIFICATIONS

GNSS Performance ⁽¹⁾	
Channels	624 channels
GPS	L1, L2, L5
GLONASS	L1, L2
Galileo	E1, E5a, E5b
BeiDou	B1, B2, B3
QZSS	L1, L2, L5

GNSS Accuracies ⁽²⁾	
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time: <10 s Initialization reliability: >99.9%
Post-processing kinematics (PPK)	Horizontal: 3 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Code differential	Horizontal: 0.4 m RMS Vertical: 0.8 m RMS
Autonomous	Horizontal: 1 m RMS Vertical: 1.5 m RMS
Positioning rate ⁽³⁾	1 Hz, 5 Hz and 10 Hz
Time to first fix ⁽⁴⁾	Cold start: < 45 s Hot start: < 10 s Signal re-acquisition: < 2 s
IMU update rate	200 Hz
Tilt angle	0~60°
RTK tilt -compensated	Additional horizontal pole-tilt uncertainty typically less than 10 mm + 0.7 mm/° tilt

Hardware	
Size (L x W x H)	119 mm x 119 mm x 85 mm (4.7 in x 4.7 in x 3.3 in)
Weight	0.73 kg (1.60 lb)
Front panel	4 LED, 2 physical buttons
Environment	Operating: -40°C to +65°C (-40°F to +149°F) Storage: -40°C to +85°C (-40°F to +185°F)
Humidity	100% condensation
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 1 m
Shock	Survive a 2-meter pole drop
Tilt sensor	Calibration-free IMU for pole-tilt compensation. Immune to magnetic disturbances. E-Bubble leveling

Communication	
Wi-Fi	802.11 b/g/n, access point mode
Bluetooth®	V 4.2
Others	NFC
Ports	1 x USB Type-C port (external power, data download, firmware update) 1 x UHF antenna port (TNC female)
UHF radio	Standard Internal Tx/Rx: 410 - 470 MHz Transmit Power: 0.5 W, 1W Protocol: CHC, Transparent, TT450, Satel ⁽⁵⁾ Link rate: 9,600 bps to 19,200 bps
Data formats	RTCM 2.x, RTCM 3.x, CMR input / output HCN, HRC, RINEX 2.11, 3.02 NMEA 0183 output NTRIP Client, NTRIP Caster
Data storage	8 GB internal memory

Electrical	
Power consumption	Typical 4 W (depending on user settings)
Li-ion battery capacity	Built-in non-removable battery 6,800 mAh, 7.4 V
Operating time on internal battery ⁽⁶⁾	UHF / 4G RTK Rover: up to 14.5 h UHF RTK Base: up to 6.5 h Static: up to 18 h

Certifications	
CE Mark; FCC Part 15 Subpart B Class B; NGS Antenna Calibration	



*All specifications are subject to change without notice.

(1) Compliant, but subject to availability of BDS ICD, Galileo and QZSS commercial service definition. BDS B2b, Galileo E6 and QZSS L6 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. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. (3) Compliant and 10 Hz to be provided through future firmware upgrade. (4) Typical observed values. (5) Compliant and Satel protocol to be provided through future firmware upgrade. (6) Battery life is subject to operating temperature.