

Xsite[®] ROVER



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Leveraging the latest GNSS technologies, the Xsite® ROVER is a smart receiver of the next generation. The proven and outstanding performance and reliability makes it the preferred choice of surveyors and construction professionals.

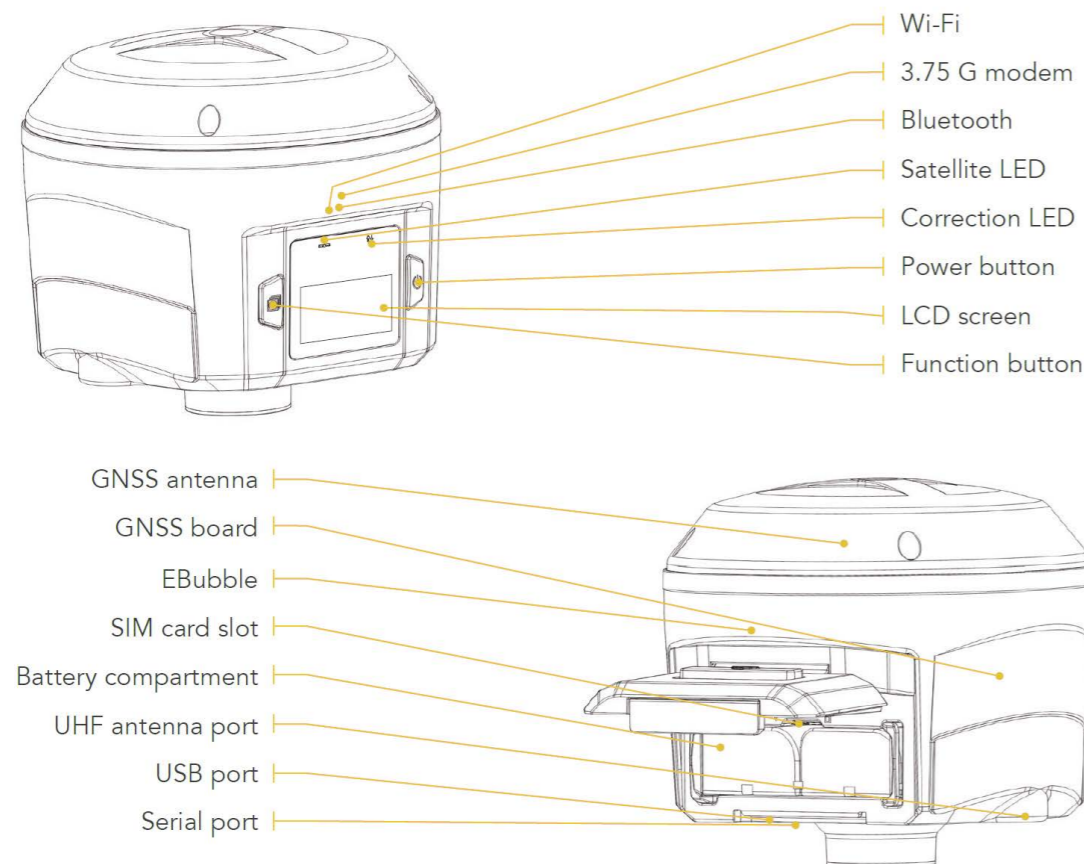
FEATURES

- Internal network and UHF modem
- 220 channels - Full GNSS
- GPS, Glonass, Beidou and Galileo included
- Rugged IP67 Enclosure

The Xsite® ROVER benefits from a compact, ergonomic and rugged design with integrated sensors. (3.75G network modem, UHF Radio, Wifi, Bluetooth and E-bubble)

Supporting a sunlight readable LCD, the operating status of the receiver is available at a glance.

Hardware



Specifications

GNSS Characteristics

Channels	220
GPS	L1 C/A, L2C, L2E, L5
GLONASS	L1 C/A, L1P, L2 C/A (GLONASS M Only), L2P
Galileo	L1 BOC, E5A, E5B, E5AltBOC
Beidou	B1, B2
NavIC(IRNSS)	L1 C/A, L5 /QZSS, WAAS, EGNOS, GAGAN

GNSS Accuracies

RTK Real time kinematics	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization Time: < 5 s Initialization Reliability: > 99.9%
High-precision Static	Horizontal: 3.0 mm + 0.1 ppm RMS Vertical: 3.0 mm + 0.4 ppm RMS
Code differential	Horizontal: 0.25 m + 1 ppm RMS Vertical: 0.5 m + 1 ppm RMS
SBAS	Horizontal: 0.5 m RMS Vertical: 0.85 m RMS

Hardware

Size (H x W)	135 mm x 116 mm (5.3 in x 4.6 in)
Weight	1.1 kg (2.4 lb)
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	Survives a 2-meter pole drop
Display	128 x 64 dpi sunlight readable with function/power buttons
Tilt sensor	E-Bubble leveling

Electrical

Power consumption	3.8 W (depending on receiver configuration)
Li-ion battery capacity	2 x 3400 mAh, 7.4 V
Operating time on internal battery	UHF receive/transmit (0.5 W): Up to 6 h Cellular receive only: Up to 9h Static: Up to 10 h
External power	9 V DC to 36 V DC

Communications and Data Recording

Network modem	Integrated 3.75G modem HSPA+ 21 Mbps (down), 5.76 Mbps (up) WCDMA 850/900/1700/1900/2100 EDGE/GPRS/GSM 850/900/1800/1900
Wi-Fi	802.11 b/g/n, access point mode
Bluetooth	V4.1
Ports	1 x 7-pin LEMO port (external power, RS-232) 1 x USB 2.0 port (data download, firmware update) 1 x UHF antenna port (TNC female)
UHF radio	Internal Rx/Tx: 403 MHz to 473 MHz Transmit power: 0.1 W to 1 W Protocols Trimble, Satel, Pacific Crest Range: 5 km optimal conditions
Data formats	CMR, CMR+, SCMRX input and output RTCM 2.x, RTCM 3.x input and output NMEA 0183 output HCN, HRC and RINEX static formats NTRIP Client, NTRIP Caster
Data storage	32 GB high-speed memory
Data output	Internal data logging and position output frequency up to 20 Hz, 50 Hz optional

Make the most out of your GNSS RTK receiver with the Xsite® PAD



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