

SubX™

L1-GPS RECEIVER/SBAS

**A SMALL GPS BOX THAT DELIVERS HIGH-QUALITY DATA,
NO MATTER WHERE YOU ARE.**

WITH ONPOZ PRECISION POSITIONING, YOU HAVE IT ALL.

- High-accuracy GPS box for Sub-meter post-processing
- extreme tracking capability for non-stop GPSing under dense canopy
- Multiple connectors - Serial, USB and Bluetooth for flexible communication
- Totally water resistant, guaranteeing extreme durability in the harshest environment
- Up to 2 working days rechargeable GPS box /user-replaceable battery
- Optional geodetic antenna for improved accuracy
- Choice of handheld data collector to better suit your application



**ALL-IN-ONE, ULTRA-RUGGED
MULTIPOINT GPS/SBAS RECEIVER
AND BATTERY FOR ACCURATE DATA ACQUISITION**

The only Serial/USB/Bluetooth GPS box on the market that gives you extreme tracking capability. It is also the smallest and lightest sub-meter GPS box on the market that lets you boost your productivity without compromising the quality of your GPS surveys. Its fast reacquisition time, tracking sensitivity and multipath rejection technology make it the most powerful receiver for working under extreme GPS conditions while guaranteeing unparalleled accuracy. Real-time SBAS corrections increase field position accuracy and allow you to skip post-processing in many types of applications.

**USER-FRIENDLY FIELD SOFTWARE
AND EFFORTLESS POST-PROCESSING SOFTWARE**

The **EZTag CE™** GPS/GIS field application lets you collect high quality data easily out of the box. The rigorous algorithms in **EZSurv™** automated post-processing software secure the best results for your surveys, from easy to extreme conditions.



TECHNICAL SPECIFICATIONS

STANDARD

SubX™ multiport GPS box (sub-meter receiver and battery)
Ergonomic belt pouch
Battery charger
Patch antenna delivering maximum tracking under canopy
EZTag CE™ field software (GIS & mapping)

SubX™ GPS BOX

Size	4.7 x 2.6 x 1.6 inches (12.0 x 6.5 x 4.0 cm)
Weight	0.67 lb.; 0.3 kg
Power	Low (GPS and antenna): 24 hours High (GPS, antenna and Bluetooth): 18 hours
Battery	User replaceable lithium-ion, chargeable in unit (7.4V, 2450 mAh)
Environmental	Operating -20°C to 50°C / Storage -30°C to 85°C Relative Humidity 90% non-condensing Waterproof casing, IP54
Output / Input	DB9 RS-232 serial port/USB Type A Female/Bluetooth Class 2 + 3.5 dBm (up to 50 m): QMA antenna female connector – power supply connector through DB9 connector
Interface	Power button with 2 status LED
GPS	16 channels (L1 code, Doppler and carrier phase) Multipath detection and removal technology Integrated real-time SBAS (WAAS-EGNOS) Update rate 1Hz Start-up: Hot start: < 3.5 sec./Warm start: 33 sec./ Cold start: 34 sec. Reacquisition: < 1 sec.
Accuracy	Real-time (SBAS and external RTCM source) 2.0 m CEP Static carrier post-processed: centimeter Kinematic post-processed: sub-meter (code & carrier phase)

ANTENNA

Gain	27 dB
Temperature	- 40°C to 85°C
Size	48 x 40 x 13 mm
Power	5 V
Other	5 meter cable with QMA connector male

OPTIONAL

EZSurv™ post-processing software
EZField™ survey data collection software
Geodetic antenna and cable for higher accuracy
Serial cable
USB cable

EZTag CE™ FIELD SOFTWARE FOR GIS APPLICATIONS

Display	Dynamic (rotative) display of vector and raster files, measurements (lengths and areas)
GIS Acquisition	Relational database support through a data dictionary
Operating system	Windows Mobile 5.0, Windows Mobile 6.0, Windows 2000, Windows XP
Other features	Touch screen lock, alarms, navigation tools, many mapping systems

EZSurv™ POST-PROCESSING SOFTWARE

Accuracy	Code post-processed: sub-meter Carrier post-processed: centimeter
Automated Processing	Scan Internet for base station network, automatic batch processing
GPS Formats	RINEX, SubX™, NovAtel, Hemisphere, SIRF and others
QA Tools	Loop closure, common vector analysis, configurable processing parameters, residual analysis, satellite time span rejection, network adjustment, mission planning, time/distance filter, etc.
Base Network	CORS, CDDIS, BCACS, MRNQ, local (open architecture to add other networks)
Versions	L1/L2 (dual frequency full version), L1 (L1 centimeter), Lite (L1 sub-meter)



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