

The Xplore xGPS² & xGPS² PRO

Integrated Two-Meter and Sub-Meter GPS Modules



THE INTEGRATED GIS SOLUTION

The xGPS² and xGPS² Pro Global Positioning Modules offer an all-in one solution for mobile workers who need GIS capabilities in the most difficult environments. The GPS modules integrate directly onto the iX104C5 tablet, providing a comprehensive tool for location-based field work with outstanding accuracy.

KEY FEATURES AND BENEFITS

- The xGPS² and xGPS² Pro modules deliver real-time positioning fast-- with up to two meter (xGPS²) and sub-meter (xGPS² Pro) accuracy for superior navigation
- The high-performance, low-profile GPS engine module attaches and detaches directly to the tablet, reducing the number of field devices you need to carry
- Rugged specs allow field personnel to operate more effectively in outdoor conditions
- Workers stay better connected in the field, which helps them accomplish tasks more confidently and efficiently
- High sensitivity design provides GPS reception in dense city environments and other weak-signal areas
- Innovative design and technology suppresses jamming sources and mitigates multipath effects
- Speeds data collection and acquisition: a 50-channel positioning engine with over 1M correlators enable instant satellite locks (fast time to first fix of less than one second), and minimize wait time to start collecting data
- Differential Global Positioning System (DGPS) and multiple Satellite Based Augmentation System (SBAS) support (WAAS, EGNOS)
- SBAS provides corrections for the GPS constellation signals, helping users achieve improved accuracy for GPS data collection
- Low power consumption
- Outputs NMEA data on virtual COM port
- Extends the life of portable applications
- Compatible with all standard GPS/GIS software
- Supports all iX104C5 and prior tablets

ENVIRONMENTAL TESTS

Independently Tested to MIL-STD-810G

OPERATING TEMPERATURE:	-4° F to 140° F (-20° C to 60° C)
HUMIDITY	0% - 95% Relative Humidity
GROUND SPEED	Up to 500 meters/second
RAIN	Blowing Rain 4"/Hr. 40 mph Wind per MIL-STD-810G Method 506.5 Procedure II
TRANSIT SHOCK	48 in drop, concrete, all surfaces, edges and corners (26 drops) spread over 5 test units MIL-STD-810G Method 514.6
VIBRATION	Minimum Integrity Test 0.04g /Hz, 20Hz -1000 Hz - 6dB/octave ,1000Hz - 2000Hz Figure 514.5C - 17 per MIL-STD-810G Method 514.6

TECHNICAL SPECIFICATIONS

RECEIVER TYPE:	GPS L1 Frequency, C/A Code Galileo Open Service L1 frequency 50 channel U-blox NEO 6 engine with over 1 million effective correlators
MAX UPDATE RATE:	4Hz
XGPS ² HORIZONTAL ACCURACY:	Position (Autonomous): <2.5m Position (SBAS2): <2.0m
XGPS ² PRO HORIZONTAL ACCURACY:	Position (Autonomous): <2.5m Position (SBAS): <1.0m (Requires 10 minutes of uninterrupted SBAS reception)
ACQUISITION:	Cold Start (Autonomous): 28s Warm Start (Autonomous): 28s Hot Start: <1s