

SOKKIA

MADE TO FIT YOUR WORLD.

GCX3

GNSS Receiver





Pint-sized powerhouse

Get centimeter level results without being weighed down by your equipment. This compact receiver delivers full-featured, high-precision performance.

The GCX3 is the ideal local jobsite base/rover RTK (Real Time Kinematic) system or Network RTK rover. And like all of our products, you can customize it to meet your needs and create your own workflows.

- All-in-view constellation GNSS receiver
- 226 optimized satellite tracking channels
- Second generation POST2™ (Precision Orbital Satellite Technology) integrated antenna – robust signal tracking even around interference sources.
- Compact, lightweight, rugged and cable-free design
- Ideal Network RTK rover
- Wireless, multi-channel Long-Range *Bluetooth®* technology

The latest in GNSS technology

The Sokkia GCX3 is a dual frequency GNSS receiver which delivers RTK centimeter level performance. It offers high-quality results in the surveying and construction fields, and is versatile enough to be used in a wide variety of other areas and industries.

Small but mighty

The GCX3 is an ultra-lightweight, compact solution that's ideal for pole mounting. You get maximum mobility and ease-of-use in the field. But don't let the size fool you—the GCX3 antenna performance in obstructed canopy environments outperforms other traditional antenna technology.

Advanced technologies

Built with leading edge technology, the GCX3 brings you the best in GNSS RTK and static data collection. The POST2™ integrated antenna delivers first class performance. Adding BeiDou, Galileo, SBAS, QZSS, and GAGAN satellite tracking in addition to GPS and GLONASS ensures the best positioning availability.



Ultimate versatility

The GCX3 interface is based on an open source architecture. This means you are not limited to a specific software for your field controller. While the GCX3 standard system includes suggested software, it is open to fit your workflow.



Work your way

Providing flexibility in a variety of ways for static or RTK data collection, the GCX3 easily adapts to nearly any application. A pair of GCX3 receivers can be used as a base and rover using wireless multi-channel Long-Range Bluetooth® technology RTK corrections. And, when combined with a cellular-enabled field controller, the GCX3 is an ideal precision Network RTK rover.



Clear communication

With its wireless multi-channel Long-Range *Bluetooth*® technology RTK corrections, the GCX3 eliminates licensing or interference issues. When used as a base, it may support up to three concurrent GCX3 rovers at a range over 300+ m (1000 ft.).



Ready, set, go!

Open the box and you are ready to start within minutes. Collecting data has never been easier with the GCX3's simplified user display and portable, straightforward design.

Specifications

Tracking Capability	
Number of Channels	226 channels
Tracked Signals	GPS L1 C/A, L1C, L2P, L2C GLONASS L1 C/A, L1P, L2 C/A, L2P BeiDou B1, B2 Galileo E1 SBAS L1 C/A WAAS/MSAS/EGNOS QZSS L1 C/A, L1C, L2C GAGAN
Antenna Type	Integrated antenna
Positioning Accuracy	
Static/Fast Static	H: 3.0 mm + 0.4 ppm, V: 5.0 mm + 0.6 ppm
RTK (L1+ L2)	H: 10 mm + 0.8 ppm, V: 15 mm + 1.0 ppm
DGPS	H: 0.4 m, V: 0.6 m
SBAS	H: 1 m, V: 1.5 m
Maximum Data Rate	10 Hz
Data Management	
Memory	Internal non-removable memory up to 8GB
Real Time Data Output	TPS; RTCM SC104 v 2.x, 3.x, MSM; CMR/CMR+*
ASCII Output	NMEA 0183 v 2.x and 3.0
Communication Ports	<i>Bluetooth</i> ® USB 2.0 High Speed Device
Wireless Communication	
<i>Bluetooth</i> ® Modem	v2.1 + EDR
RTK Communication* *	Through cell enabled field controllers Over 300+ m (1000 ft) with up to 3 simultaneous rovers using wireless multi-channel Long-Range <i>Bluetooth</i> ® technology RTK corrections
General	
Dust/Water Protection	IP67
Humidity	100%, condensing
Operating Temperature	-20°C to 63°C / -4°F to 145°F (with internal batteries) -40°C to 63°C / -40°F to 145°F (with external power)
Display Type	LED user interface
Dimensions (w x h x l)	47 x 197 x 47 mm (1.9" x 7.3" x 1.9")
Weight (including batteries)	440 g (15.5 oz.)
Power Supply	
Battery Type	Internal non-removable
Operating Time	All day operation in any configuration (up to 10 hours)
External Power Connector	Service port (shared with USB 2.0 communication)

- * Use of the industry standard RTCM 3.x is always recommended for optimal performance
 ** Typical long-range distance with clear line of sight. Distance for long-range largely depends upon environmental and field conditions.

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