SOKKIA

MADE TO FIT YOUR WORLD.

GCX3

GNSS Receiver

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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 job site base/rover RTK (Real Time Kinematic) system or network RTK rover — and like all of our solutions, 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 that delivers RTK centimeter-level performance. It delivers high-quality results for surveying and construction applications, and is versatile enough to be used in a wide-variety of other areas and industries as well.

Small but mighty

The GCX3 is an ultra-lightweight, compact solution that minimizes heft on the range pole. You get maximum mobility and ease of use in the field. But do not let the size fool you – the GCX3 antenna performance in obstructed canopy environments outperforms other traditional antenna technology.

Advanced technologies

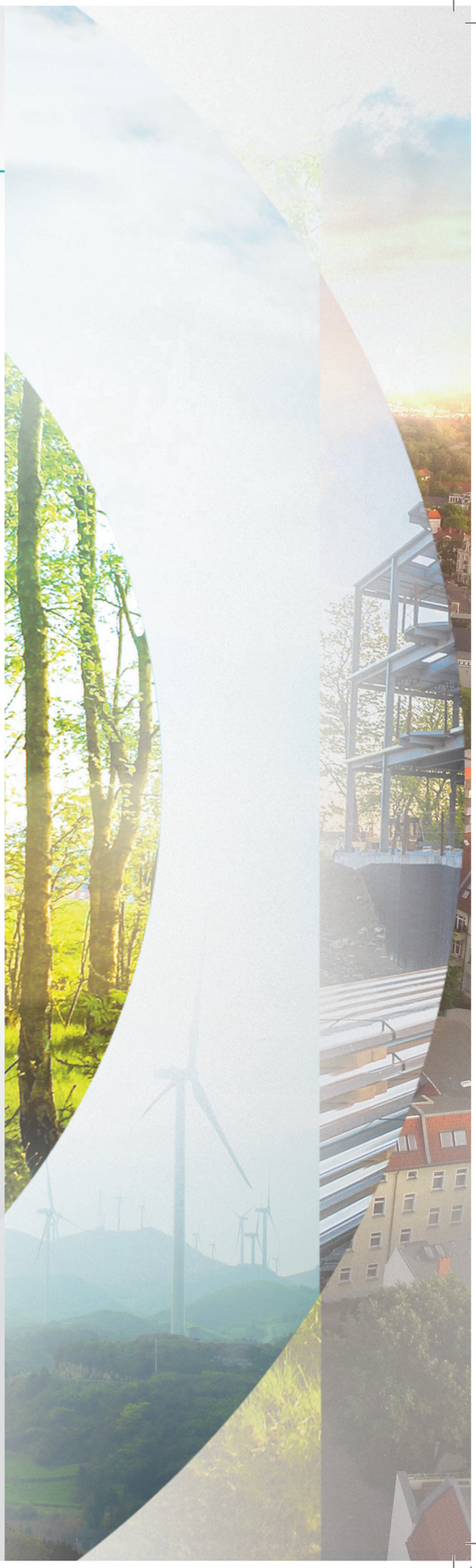
Built with leading-edge technology, the GCX3 brings you the best in GNSS RTK and static data collection. The POST2™ integrated antenna delivers first-class performance. Adding BeiDou, Galileo, SBAS, QZSS, and GAGAN satellite tracking in addition to GPS and GLONASS ensures the best positioning availability.

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. When combined with a cellular-enabled field controller, the GCX3 also performs as an ideal precision network RTK rover.



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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 three concurrent GCX3 rovers at a range of up to 300 meters.

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/GAGAN QZSS L1 C/A, L1C, L2C
Antenna Type	Integrated antenna
Positioning Accuracy	
Static/Fast Static	H: 3.0 mm + 0.4 ppm, V: 5.0 mm + 0.6 ppm
Precision Static**	H: 3.0 mm + 0.1 ppm, V: 3.5 mm + 0.4 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: 0.8 m, V: 1 m
Maximum Data Rate	10 Hz
Data Management	
Memory	Internal non-removable memory up to 8GB
Real Time Data Output	TPS, RTCM SC104 v2.x, 3.x and MSM, CMR/CMR+*
ASCII Output	NMEA 0183 version 2.x, 3.x and 4.x
Communication Ports	Bluetooth® USB 2.0 High Speed Device
Wireless Communication	
Bluetooth® Modem	v2.1 + EDR
RTK Communication**	Through cellular enabled field controllers Up to 300 meters with 3 simultaneous rovers using wireless multi-channel long-range Bluetooth® technology RTK corrections
General	
Dust/Water Rating	IP67
Humidity	100%, condensing
Operating Temperature	-20°C to 63°C (with internal batteries) -40°C to 63°C (with external power)
Display Type	LED user interface
Dimensions (w x h x l)	47 x 197 x 47 mm
Weight (including batteries)	440 g
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.*

** *Under nominal observing conditions and strict processing methods, including use of dual frequency GPS, precise ephemerides, calm ionospheric conditions, approved antenna calibration, unobstructed visibility above 10 degrees and an observation duration of at least 3 hours (dependent on baseline length).*

*** *Typical long-range distance with clear line of sight. Distance for long-range largely depends upon local radio regulations, environmental and field conditions.*

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