

SOKKIA

Sokkia Atlas

Advanced GNSS Receiver



- 226 channels with optimized satellite tracking technology
- Integrated full wave GNSS antenna
- Internal UHF radio with optional cellular module
- 32GB SDHC storage support
- Dual hot-swappable batteries

The Sokkia Atlas with advanced full wave antenna is the most cutting edge RTK GNSS system available.

The Sokkia Atlas is a multi-constellation GNSS RTK receiver featuring 226-channel optimized satellite tracking technology. Using flexible and dynamic tracking methods, it automatically selects and tracks any available satellite signal, providing users the maximum number of signals and measurements at any given time.

An advanced full wave antenna design provides the Sokkia Atlas with superior signal reception and advanced multi-path rejection in difficult environments. This technology creates more robust and cleaner signal tracking, allowing for unparalleled results. The Sokkia Atlas supports GPS, GLONASS, QZSS, and BDS while support for Galileo signals are incorporated and will be available through firmware and OAF upgrades.

The Sokkia Atlas delivers ultimate field performance even in challenging environments while maintaining unmatched accuracy, speed of initialization and fix reliability for RTK solutions. The mechanical design makes it incredibly reliable, ergonomic, and durable. Guaranteed to be rugged, the Sokkia Atlas is an exclusive high-performance GNSS receiver.



226-channel optimized satellite tracking

Unique signal tracking technology allows dynamic allocation of each channel to track available signal.



Cellular and radio

Featuring both cellular and radio communication, the Sokkia Atlas can be configured for use in radio based RTK and network RTK solutions.



Long range UHF radio

The Sokkia Atlas top-mounted radio antenna extends the range of RTK radio performances.



Operating time

Get the most of your workday and maximize your time in the field with at least a full day of operation from the hot-swappable batteries.

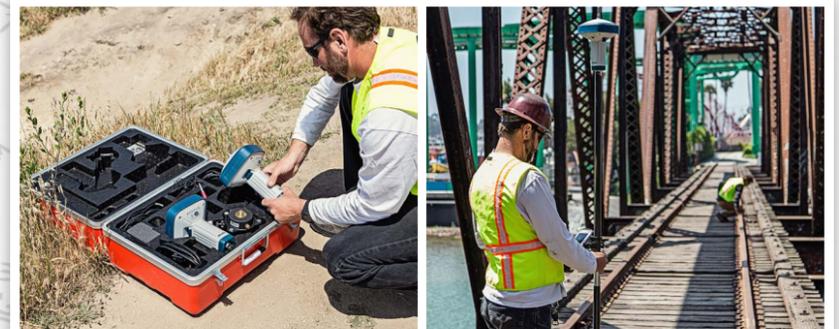
MAGNET® Field

Experience the advantage of MAGNET Field with the Sokkia Atlas RTK system. Whether connecting to a network or setting up a base/rover system, MAGNET Field makes you more productive. MAGNET Field provides the ability to share data through the web service and connect field crews to each other and the office.



Rugged Design

The Sokkia Atlas has a guaranteed rugged design. The frame and robust internal components are guaranteed to resist a 2 m pole drop.



Dual use center mount radio/communication antenna

Advanced antenna design

Advanced, durable, lightweight design

Bluetooth®
Bluetooth® Wireless Technology

Super bright display with backlit LED lights

Easy access SD memory card and SIM

Environmentally sealed external ports

Dual hot-swappable batteries

Rechargeable Li-ion battery

Rugged I-Beam construction

Standard 5/8" x 11" threaded mount

Optional quick connect pole mounting system

Software

MAGNET® software is tailored for use with Sokkia field controllers in both field and office environments.

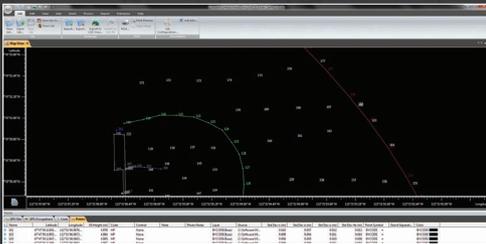
MAGNET® Enterprise

A manager's dream – tracking all field and office data in one simple-to-access web interface. Store and exchange your field data in the MAGNET Enterprise cloud. Save the drive time by sending your field and office updates to the cloud rather than driving back to the office.



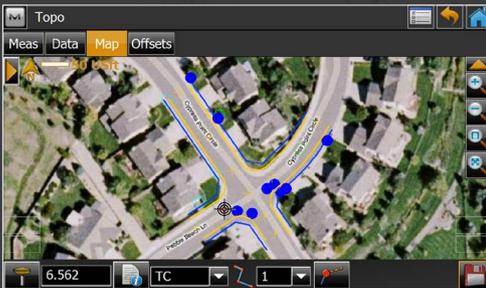
MAGNET® Office

Choose full CAD functionality with MAGNET Office Site and Topo or field data-processing with MAGNET Office Tools inside AutoCAD® products, such as Civil3D®. Pick the MAGNET Office module that fits your needs.



MAGNET® Field

Powerful software that covers full functions for surveying and engineering tasks. MAGNET Field handles data collection, stake out, roads and coordinate geometry.



SOKKIA

SOKKIA CORPORATION

16900 W. 118th Terrace Olathe, KS 66061
Phone (800) 4-SOKKIA
www.sokkia.com

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Sokkia Atlas

ADVANCED GNSS RECEIVER

SPECIFICATIONS

Tracking Capability

Number of Channels	226 channels with optimized satellite tracking technology
Tracked Signals	GPS: L1, L1C*, L2, L2C, L5* GLONASS: L1, L2 Galileo*: E1, E5a, E5b, AltBOC BeiDou: B1, B2 SBAS: L1 C/A WAAS/MSAS/EGNOS QZSS: L1 C/A, L1C*, L2C
Antenna Type	Integrated full wave GNSS antenna

Accuracy (RMS)**

RTK	H: 5 mm + 0.5 ppm V: 10 mm + 0.8 ppm
Static†	H: 3.0 mm + 0.1 ppm V: 3.5 mm + 0.4 ppm

Communication

Optional Radio Type	Integrated UHF
Base Radio Output	1.0 W, user selectable
Optional Cellular	Integrated HSPA
I/O Communications	Bluetooth® RS232 serial USB
Connectors	BNC modem antenna Power RS232 serial USB

Data and Storage

Memory	Removable SD/SDHC Card
Data Update/Output Rate	1 Hz - 50 Hz Selectable
Real Time Data Output	TPS, RTCM 2.X, RTCM 3.X, RTCM MSM, CMR, CMR+
ASCII Output	NMEA 0183 version 2.x and 3.0

General

Power	Batteries: Dual rechargeable external hot-swappable Li-ion, 3900 mAh, 7.2 V External: Single power port
Dimensions (w x h x d)	158.1 x 253 x 158.1 mm
Weight	With batteries: 1.88 kg Without batteries: 1.44 kg
Mounting	5/8-11, quick disconnect
Operating Temperature	Integrated Batteries: -30°C to 60°C External Power: -40°C to 70°C
Enclosure	Dust and water ingress protected magnesium I-Beam housing
Shock Rating	2 m pole drop to concrete, IEC 60068-2-29, and IEC 60068-2-27
Vibration Rating	Compliance with MIL-STD 810F - 514.5 - Cat.24

* Support for L1C and Galileo signals are incorporated. Positioning solution with these signals will be integrated and made available when the constellation has matured and is ready for commercial use.

** Subject to multipath anomalies and atypical satellite geometry. GNSS survey best practices must always be applied.

† 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).

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