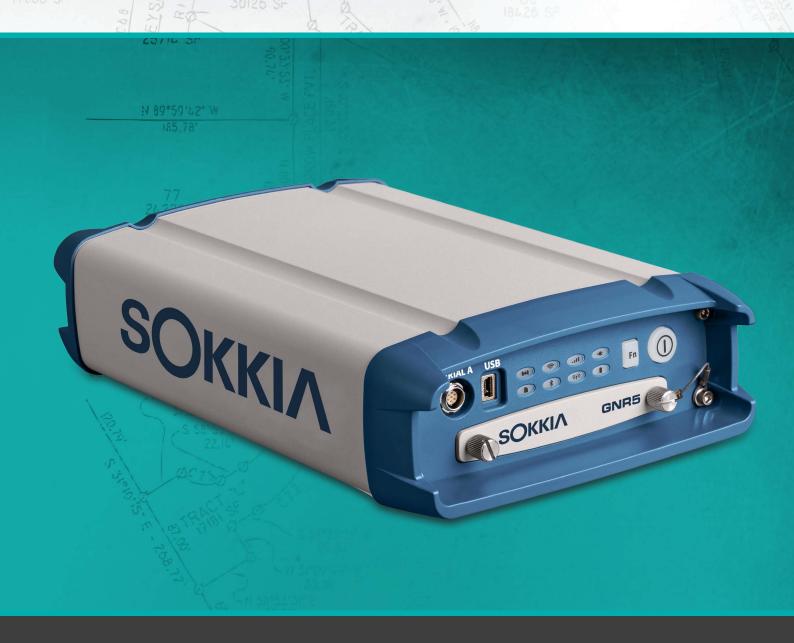


# GNSS Reference Receiver



- 452-Channels with optimized satellite tracking technology
- Superior signal tracking across the entire GNSS spectrum
- High-precision code and carrier phase measurements up to 100 Hz
- Built-in Bluetooth® and Wi-Fi connectivity
- Integrated web interface with advanced receiver management features
- 32GB SDHC storage support

### **Leading Reference Station Receiver**

Using the Sokkia premium technologies including optimized satellite tracking, the GNR5 GNSS receiver incorporates 452-channels capable of tracking multi-frequency signals from all GNSS constellations including GPS, GLONASS, SBAS, QZSS, Galileo and BeiDou. This comprehensive support includes current and modernized signals across the full GNSS spectrum, including multiple L-band signals. The optimized tracking has also demonstrated successful demodulation and tracking of advanced QZSS signal structures such as the LEX signal in E6.

The GNR5 receiver offers a complete system connectivity solution by allowing the receiver to be accessed via Ethernet, Wi-Fi, or Bluetooth® as well as by using standard serial or USB connections. The GNR5 can also serve as a USB Host and provides a new web-based user interface that offers flexible configuration options and portability. The USB Host feature allows the user to connect a USB memory stick or USB Mass Storage Device (UMS) to the GNR5 receiver. The UMS provides a simple solution for transferring raw data files from the receiver's SD card, or extending the GNR5 with a semi-permanent high-capacity storage option. The GNR5 supports flash-based UMS devices as well as hard drive-based UMS devices.

Premium positioning technology, extended communication support, advanced web-server capability, longer operating time, and high reliability makes the Sokkia GNR5 the best selection for your reference network receiver.

## SOKKIA

SOKKIA BV, EUROPEAN HEAD OFFICE Essebaan 11 • 2908 LJ Capelle a/d IJssel The Netherlands www.sokkia.com

Specifications subject to change without notice ©2014 Topcon Corporation All rights reserved. Pre-Lim Rev A 10/14

## GNR5

#### GNSS REFERENCE RECEIVER

#### **SPECIFICATIONS**

GNSS	
Number of Channels	452-Channels
Signals Tracked	GPS, GLONASS, QZSS, SBAS, Galileo, L-Band and BeiDou (BDS)
Antenna Type	External
Positioning Accuracy	
RTK	H: 10 mm+1 ppm; V: 15 mm+1 ppm
Post processed Static	H: 3 mm+0.5 ppm; V: 5 mm+0.5 ppm
Data and Memory	
Memory	Removable SD/SDHC memory card up to 32 GB and USB Host support for external USB mass storage devices
Data Update/Output Rate	1Hz - 100 Hz selectable
Data Output Format	TPS, RTCM SC104 v2.x and 3.x, CMR, CMR+, BINEX, RINEX
ASCII Output	NMEA 0183 version 2.1, 2.2, 2.3, 3.0 and 3.01
Communications	
Cellular Communications	Integrated GSM; GSM Quad-band, CDMA2000, UMTS/HSPA+
VO Communications	Class 2 Bluetooth® v2.0 + EDR WiFi 3 x RS-232 serial ports USB Host and Device supporting OTG functionality Ethernet (PoE Class 3)
NTRIP	Client, Caster, and Server functionality
TCP/IP and FTP	Multiple address ports
Web User Interface	Secure device access and configuration via Ethernet and Wi-Fi connectivity
Physical Characteristics	
Status Indicators	8 LEDs Sokkia MINTER
User Interface	Multi-function power button supporting data logging and factory reset operations
Dimensions (w x d x h)	5.9 x 7.9 x 2.4 in. (150 x 200 x 60 mm)
Weight	Less than 2 kg
Power	
External Power Input	Nominal 12 VDC (external power input range 9V - 28VDC)
Power Consumption	Less than 5.0 W (typical)
Power Ports	2 x Power ports (1 primary and 1 backup) plus Class 3 PoE
Environmental	
Operating Temperature	-40°C to 80°C with external power / -30°C to 65°C with integrated batteries
Dust and Water Protection	IP67
Humidity	100% condensing
Drop	2 meter drop to concrete surface, IEC 60068-2-29, IEC 60068-2-27
Vibration	Compliance with MIL-STD 810G, Method 514.6, Category 4
Shock	Method 516.6 (40 g RMS)



87 21456 SF

Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Sokkia is under license
Other trademarks and trade names are those of their respective owners.

Uther trademarks and trade names are those of their respective - Designs and specifications are subject to change without notice.

Designs and specifications are subject to change without notice.
 Product colors in this brochure may vary slightly from those of the actual products owing to limitations of the printing process

#### Your local Authorized Dealer is: