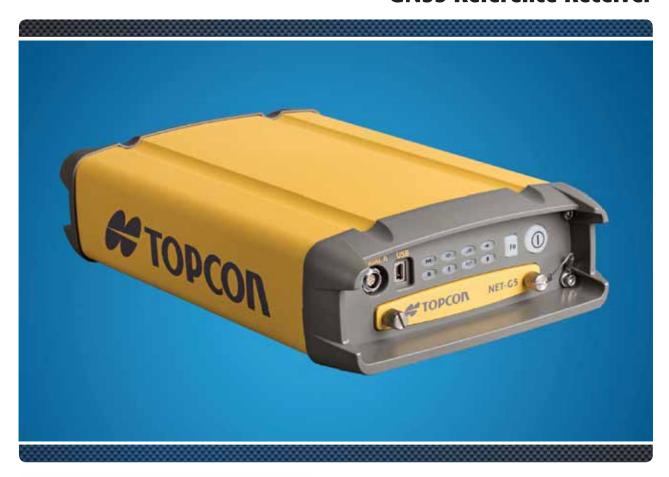


## **GNSS Reference Receiver**





- 452-Channel Vanguard Technology with Universal Tracking Channels
- 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

## **NET-G5** GNSS Reference Receiver



## **Leading Reference Station Receiver**

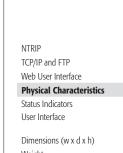
Using the Topcon premium Vanguard and Universal Tracking Channel technologies, the NET-G5 GNSS receiver incorporates 452 channels capable of tracking multi-frequency signals from all GNSS constellations including GPS, GLONASS, SBAS, QZSS, Galileo and BeiDou. This comprehensive support includes current and modernized signals across the full GNSS spectrum, including multiple L-band signals. The integrated Vanguard Technology has also demonstrated successful tracking and demodulation of advanced QZSS signal structures such as the LEX signal in E6.

The NET-G5 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 NET-G5 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 NET-G5 receiver. The UMS provides a simple solution for transferring raw data files from the receiver's SD card, or extending the NET-G5 with a semi-permanent high-capacity storage option. The NET-G5 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 put the NET-G5 receiver a step ahead of the competition. When paired with one of the industry-leading Topcon geodetic antennas (CR-G5 and PN-A5), the NET-G5 receiver provides the ultimate GNSS networking and infrastructure solution available in the market today.



**SPECIFICATIONS** 

Number of Channels 452-Channel Vanguard Technology with Universal Tracking Channels Signals Tracked GPS, GLONASS, QZSS, SBAS, Galileo, L-Band and BeiDou (BDS) Antenna Type External - Geodetic full wave CR-G5 or PN-A5 antenna

Accuracy

GNSS

H: 10 mm+1 ppm; V: 15 mm+1 ppm H: 3 mm+0.5 ppm; V: 5 mm+0.5 ppm Post processed Statio

**Data and 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+

I/O 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)

Client, Caster, and Server functionality

Multiple address ports

Secure device access and configuration via Ethernet and Wi-Fi connectivity

8 LEDs Topcon MINTER

Multi-function power button supporting data logging

and factory reset operations

5.9 x 7.9 x 2.4 in. (150 x 200 x 60 mm)

Weight Less than 2 kg

Power

Nominal 12 VDC (external power input range 9V - 28VDC) External Power Input

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** 

Humidity 100% condensing

2 meter drop to concrete surface, IEC 60068-2-29, IEC 60068-2-27 Drop Vibration Compliance with MIL-STD 810G, Method 514.6, Category 4

Shock Method 516.6 (40 g RMS)

For more specification information: topconpositioning.com/net-g5



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