



The NET-G5 uses Topcon's premium Vanguard and Universal Tracking Channel technologies, incorporating 452 channels capable of tracking multi-frequency signals from all GNSS constellations including GPS, GLONASS, SBAS, QZSS, Galileo and BeiDou. This 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 can be accessed via Ethernet, Wi-Fi, or Bluetooth® as well as by using standard serial or USB connections. The NET-G5 can serve as a USB Host and provides a web-based user interface offering flexible configuration options and portability. The USB Host allows the user to connect a USB memory stick or USB Mass Storage Device (UMS) to the NET-G5 receiver.

GNSS Tracking	
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
Positioning Accuracy	
Static/Fast Static	H: 3.0 mm + 0.4 ppm; V: 5.0 mm + 0.5 ppm
Precision Static**	H: 3.0 mm + 0.1 ppm; V: 3.5 mm + 0.4 ppm
RTK (L1 + L2)	H: 5 mm + 0.5 ppm; V: 10 mm + 0.8 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	1 Hz - 100 Hz selectable
Data Output Format	TPS, RTCM SC104 v2.x, 3.x and MSM, CMR/CMR+, BINEX, RINEX
ASCII Output	NMEA 0183 version 2.x, 3.x and 4.x
Communication	
Cellular Communications	Integrated HSPA+
I/O Communications	Class 2 Bluetooth® v2.0 + EDR Wi-Fi 3x 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
Environmental	
Operating Temperature	-40°C to 80°C with external power -30°C to 65°C with integrated batteries
Dust / Water Rating	IP67
Vibration	Compliance with MIL-STD 810G, Method 514.6, Category 4
Humidity	100% condensing
Shock	Method 516.6 (40 g RMS)
Drop	2 m drop to concrete surface, IEC 60068-2-29, IEC 60068-2-27
Power	
External Power Input	Nominal 12 VDC (external power input range 9 to 28 VDC)
Power Consumption	Less than 5.0 W (typical)
Power Ports	2x Power ports (1 primary and 1 backup) plus Class 3 PoE
Physical	
Dimensions (w x d x h)	150 x 200 x 60 mm
Weight	Less than 2 kg
Status Indicators	8 LEDs Topcon MINTER
User Interface	Multi-function power button supporting data logging and factory reset operations

** 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).



For more information:
topconpositioning.com/net-g5

Specifications subject to change without notice.
 ©2017 Topcon Corporation All rights reserved.
 7010-2145 E 4/17

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

