

NET-G5



GNSS Reference **Receiver**

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 webbased 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.

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GNSS TRACKING

Number of Channels	452-Channel Vanguard Technology with Universal Tracking Channels		
Signals Tracked	GPS, GLONASS, QZSS, SBAS, Galileo, BeiDou (BDS), IRNSS and L-band		
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		

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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	-40°C to 80°C with external power	
Temperature	-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 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.