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
- **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
- **RTK**: H: 8 mm + 1 ppm; V: 15 mm + 1 ppm
- **Post processed static**: H: 3 mm + 0.1 ppm; V: 3.5 mm + 0.4 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 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
  - 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
- **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

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