



GNSS Firmware v5.7

Release Notes

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Supported Products

Systems

- Topcon NET-G5, HiPer HR, HiPer VR, HiPer CR, MM-2, MR-2, GR-5+
- Sokkia GNR5, GRX3, GCX3

OEM

- Topcon B111, B111A, B125, B210, B310

Accompanying Topcon Software and Firmware

- To access all new features and improved functionality available in GNSS Firmware 5.7 or later, the following Topcon software versions (or later) are recommended:
 - TRU v4.1
 - Topcon Field and Office v10.0
 - Pocket 3D v15.5.2
- BLE Firmware v1.8 (HiPer VR, GRX3)

Features and Changes

General

- Updated cybersecurity features. Note: To access the new cybersecurity features, FW 5.7 must be used; previous firmware versions have reduced cybersecurity capabilities.
- FTP is disabled by default to improve system security
- TCP connections now require a strong password before activation
- mmGPS improvements
- Optimized PPP, RTK and VHD algorithms
- Improved RTK performance, including long baselines and high ionosphere conditions
- Enhanced dual-frequency (L1/L5) processing
- Galileo HAS optimizations for Skybridge usage
- GNSS spectrum visualization
- TILT/HIMU updates for World Magnetic Model 2025
- Antenna calibration and database updates
- General improvements to stability, tracking, and positioning

Fixed Issues

- Improved robustness when satellite sets change during PPP operation
- Improved startup stability for network receivers
- Improved storing of data in NVRAM including instances where non-permanent parameters had previously not been cleared
- Improved NAND block checksum handling in bootloaders

- Improved SD card logging reliability and internal media handling
- Increased robustness of data output over USB for long message sequence
- Fixed rare instance of receiver unresponsiveness after restart
- Fixed issue with VPN status
- Fixed NET-G5 Bluetooth issue related to EXT2 power reading
- Fixed multiple data output, logging, and file-handling issues
- Fixed cell FW version output for boards with previous EEPROM
- Fixed printing error for previous ARP coordinates in Autoseed DB
- Fixed issue with response on non-existent DDNS GRIL command
- Fixed GALILEO INAV in RINEX output
- Fixed L1C/B code measurements offset
- Fixed typo in TCP connection prompt for HiPer VR receiver
- Fixed user ID length to support 36 symbols
- Fixed VHD issues with number of used satellites
- Implemented a 3-second delay on FTP and TCP servers when an incorrect password is entered
- Imposed a minimum value of RMS values in NMEA GST message to avoid outputting zeroes
- Included information about GAL, BDS, QZSS in positioning to [NP] and [SC]
- Included information about PPP solution to [SC] in SkyBridge Mode