



GNSS Firmware v7.2

Release Notes

February 2026

©Copyright Topcon Positioning Systems, Inc. 2026.

All contents in this document are copyrighted by Topcon. All rights reserved. The information contained herein may not be used, accessed, copied, stored, displayed, sold, modified, published, or distributed, or otherwise reproduced without express written consent from Topcon.

Table of Contents

SUPPORTED PRODUCTS	3
SYSTEMS	3
SOFTWARE COMPATIBILITY	3
FEATURES AND CHANGES	3

Supported Products

Systems

- Topcon HiPer XR
- Sokkia GRX5

Software Compatibility

- GNSS FW v7.2 requires the following Topcon software versions (or later) to access all features and functionality:
 - TRU and SRU v4.2
 - Pocket 3D v15.5.3
 - Topcon Field and Office v10

Features and Changes

- Updated RED cybersecurity features to meet compliance requirements.
- Updated Bluetooth PIN minimum length to meet RED cybersecurity requirements.
- B2a support in RTK positioning
- Improvements in PPP and Skybridge algorithms
- Galileo HAS optimizations for Skybridge usage
- Wake-up and job-programming improvements
- Improved AFRM and quotas procedures
- Added support of new QZSS satellites
- Added QZSS L1C/B signal data to GRIL messages
- NMEA generation improvements
- General FW stability improvements
- Optimized default tracking to prioritize active satellites and optimal signals.
- Implemented command to report SIM card activation state
- Added GNSS module firmware version and ID to techdump (diagnostic report) file

Fixed Issues:

- Corrected GPS quality indicator in GGA messages for PPP under degraded conditions.
- Fixed empty NMEA GNS fields that occurred after a factory reset.
- Updated NMEA generation to use proper multi-GNSS talker IDs (GN).
- Fixed incorrect GGA height values that occurred after changing the antenna type
- Added missing differential-age and station-ID fields in PPP-mode NMEA output.

- Improved NMEA GSV messages to remove duplicates and report the correct satellite count.
- Fixed PPP-mode inconsistencies in NMEA RMC messages to match TPS output.
- Corrected GGA output that became invalid just before loss of position.
- Fixed an issue where the receiver continued outputting a stale PPP position after losing all satellite tracking; it now correctly outputs no PPP solution when no satellites are tracked.
- Improved PPP corrections support when receiving data via the internal cellular modem.
- Corrected improper conversion of BeiDou timing group delay parameters in the broadcast ephemeris.
- Improved auto-input mode to more reliably detect and decode correction messages.
- Addressed AutoSeed behavior and reliability improvements
- Corrected satellite status / health indicator and PRN mapping for SBAS satellites
- Resolved defects in Job programming, job triggered file logging, and message scheduling
- Improved wake up session reliability and updated wake up behavior
- Updated IP Discovery functionality with added device identifiers (Model, Board ID, SN, FW)
- Improved reliability of UDP IP Discovery responses
- Improved AFRM behavior, restored correct quota handling, and ensured files with spaces in their names can be deleted reliably from internal storage.
- Improved system stability by resolving resets and reboots during heavy loads.
- Improved Zero Power Mode reliability
- Fixed Lower Power Mode behavior to reduce battery consumption in base-station setups
- Corrected REC LED storage warnings so they now activate at the proper free-space levels instead of triggering too early.