Trimble GNSS OEM

RECEIVERS

This document contains late-breaking product information, updates, and troubleshooting tips not covered in the Trimble® GNSS OEM receivers' documentation.

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Introduction

These Release Notes describe improvements made since version 5.21 to the following Trimble GNSS OEM receivers:

- BD930
- BD935-INS
- BX935-INS
- BD940
- BD940-INS
- BX940
- BD970
- BD982
- BX982
- BD992
- BD992-INS
- BX992

To use the new firmware, you must have a valid firmware warranty. You can check the Firmware Warranty Date using the web interface. Make sure the date shown is 1 May 2017 or later. Alternatively, obtain the warranty date from the WinFlash software. Select **Verify receiver options** and ensure the **Firmware Option** is 1 May 2017 or later.

For further support information, go to www.trimble.com/OEM_ReceiverHelp.

Version 5.31, 5.33, and 5.34

Revision A

May 2018

®Trimble.

Upgrade Procedure

There are two ways to load the new firmware:

- Use the WinFlash utility (BD9xx WinFlash v53X.zip) downloaded from the Trimble website.

- Use the web interface of the receiver to load the firmware image file downloaded from the Trimble website.

New Features and Changes

The following improvements have been made to the Trimble GNSS OEM receivers.

New features and changes between 5.21 and 5.31

- Support for new BD/BX940 and BD/BX99X receiver platforms.

- Updated antenna libraries, including the Zephyr™ 3 rugged antenna.

- Improvements to INS/GNSS single- and dual-antenna positioning.

- Improvements to Beidou, Galileo, and QZSS operation.

- Improvements to EGNOS.

- Corrected issue where downgrading from 5.20 to older firmware caused problems.

- NMEA2000 support added.

- Improve RT27 longitude velocity subtype.

- Galileo tracking improvements.

- Graphical Improvements to the web interface for INS and dual-antenna systems.

- Expanded IRNSS support.

- Added PASHR,PBN NMEA message.

- Correct transformation with ITRF for the fixed epoch mode of RTX.

- Added Spectrum Analyzer capability.

- Reduce boot-up time on NTP server.

- Updated OmniSTAR® libraries.

New features and changes between 5.31 and 5.33

- NMEA 2000 updates

- Update to the RTCM3 MSM QZSS L2 message.

- Corrected the NMEA GNS implementation.

- Added support for QZSS PRN 199.

- Added support for SBAS PRN 122.

- An RTK propagation limit can now be selected.

- Corrected the SBAS SV122 reporting in SV Flags.

New features and changes between 5.33 and 5.34

- Support for the new memory chip in the BD970 and BD982 receivers.

- Updated the WAAS default PRN table.

- Additional NMEA 2000 updates.

- Update to show Galileo E6 CNo on the Tracking Graph web page.

Documentation updates

The latest documentation can be found online at www.trimble.com/OEM_ReceiverHelp.

Legal Notices

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Release Notice

This is the May 2018 release (Revision A) of the GNSS OEM Receivers' Release Notes. It applies to version 5.31, 5.33, and 5.34 of the Trimble GNSS OEM receivers.