

Release Notes

GNSS OEM Receivers

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

[Introduction](#)

[Upgrade procedure](#)

[New features and changes between versions 5.56 and 5.60](#)

[New features and changes for ProPoint receivers between firmware versions 6.16 and 6.20](#)

[Documentation updates](#)

Introduction

These release notes describe improvements made since version 5.56/6.16.

With this release, Trimble is making available two versions of the firmware, 5.60 and 6.20. The 6.20 firmware includes the ProPoint® RTK/Trimble RTX® engine. Only receivers that have the ProPoint option installed can load 6.xx firmware. Listed below are the Trimble GNSS OEM receivers that these release notes apply to and the firmware that can be loaded.

Receiver	Firmware version	
	5.60	6.20 ProPoint (upgrade may be required ¹)
BD9250 / BD9250s	×	✓
BD940	✓	✓
BD940-INS	✓	✓
BX940	✓	✓
AX940 / AX940i ²	×	✓
BD970	✓	×
BD982	✓	×
BX982	✓	×
BD992	✓	✓
BD992-INS	✓	✓
BX992	✓	✓

© 2023, Trimble Inc. All rights reserved. Trimble, the Globe & Triangle logo, ProPoint, and Trimble RTX are trademarks of Trimble Inc., registered in the United States and in other countries. All other trademarks are the property of their respective owners. This is the February 2023 release (Revision A) of the Release Notes. It applies to version 5.60/6.20 of the OEM receiver firmware.

¹ Upgrade steps if the receiver was not purchased with the ProPoint option and does not have the ProPoint option installed: (a) Ensure that firmware version 5.46 or later is loaded in the receiver. (b) Install the purchased ProPoint option key password provided by the support team. (c) Install the ProPoint 6.XX firmware.

² All AX940 / AX940i and BD9250 / BD9250s receivers use the 6.XX firmware and do not require an upgrade to install 6.16.

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 November 2020 or later. Alternatively, obtain the warranty date from the WinFlash software. Select **Verify receiver options** and ensure the **Firmware Option** is 1 November 2020.

For further support information, go to <https://oemgnss.trimble.com/support/>.

Upgrade procedure

There are two ways to load the new firmware:

- Use the WinFlash utility (BD9xx WinFlash V560V620.exe) downloaded from the Trimble website. For help on using WinFlash, go to <https://tinyurl.com/66925kjr>.
- Use the web interface of the receiver to load the firmware image file downloaded from the Trimble website.

New features and changes between versions 5.56 and 5.60

The following improvements have been made to the GNSS OEM receivers since version 5.56:

- Improvements to DHCP when USB port connected to a host
- Corrected issue with RTCM 3.3 MSM GLONASS outputs
- Minimized latency and latency spikes in GNSS/INS mode
- Corrected issue with DGNSS rover selection of BeiDou B1C versus B1I signals
- Corrected issue with GLONASS almanac collection
- Updates to NMEA GGA message to ensure mode flag is consistent between RTX standard and RTX Fast services
- Ionospheric scintillation updates (Not applicable to ProPoint receivers)
- Corrected issue where certain BD992 receivers were occasionally crashing
- Added Trimble AV17 to antenna type selection
- Update to NMEA talker ID for GNSS/INS computed outputs
- Updates to NMEA outputs when local coordinate system loaded
- Updates to NMEA GSA message to correctly identify QZSS and NavIC constellations

New features and changes for ProPoint receivers between firmware versions 6.16 and 6.20

All features listed in the section [New features and changes between versions 5.56 and 5.60](#) on [page 2](#) also apply to version 6.20 of the ProPoint firmware unless noted otherwise. In addition, the following improvements have been made to the Trimble GNSS OEM ProPoint receivers since version 6.16:

- Improvements to AX940i lever arm measurements
- Improved error estimates for GNSS/INS positions
- Support in RTCM 3 MSM for BeiDou B1C and B2A signals

Documentation updates

The latest documentation can be found online at <https://oemgnss.trimble.com/support/>.