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

These release notes describe improvements made since version 5.63/6.23.

With this release, Trimble is making available two versions of the firmware, 5.66 and 6.26. The 6.26 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 | |
	5.66	6.26 ProPoint (upgrade may be required [1])
BD9250 / BD9250s	✕	✓
BD940	✓	✓
BD940-INS	✓	✓
BX940	✓	✓
AX940 / AX940i [2]	✕	✓
BD970	✓	✕
BD982	✓	✕
BX982	✓	✕
BD992	✓	✓
BD992-INS	✓	✓
BX992	✓	✓

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[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 6.26.

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 December 2022 or later to load firmware 5.66 and 1 September 2023 to load firmware 6.26. Alternatively, obtain the warranty date from the WinFlash software. Select **Verify receiver options** and ensure the **Firmware Option** is 1 December 2022 or later to load firmware 5.66 and 1 September 2023 to load firmware 6.26.

Note: Additional support information can be found at https://oemgnss.trimble.com/support/.

Upgrade procedure

There are two ways to load the new firmware:

- Use the WinFlash utility (BD9xx WinFlash V563V623.exe) downloaded from the Trimble website.
- Use the web interface of the receiver to load the firmware image file downloaded from the Trimble website.

Note: Additional help on upgrading can be found at https://tinyurl.com/mrxr5sz6.

New features and changes between versions 5.63 and 5.66

The following improvements have been made to the GNSS OEM receivers since version 5.63:

General improvements

- Improvements in Galileo signal tracking in jamming conditions
- OEM GNSS receivers now default to SBAS+ mode
- NMEA2000 is now disabled if NMEA option is disabled
- Updates to account for OmniSTAR beam changes
- Fixed issue with reporting health of QZSS LEX signal
- Improvements to QZSS LEX tracking on dual-antenna systems
- Raw data can now be output for a secondary antenna
- Added ability to customize NMEA fix/float precision threshold
- Networking improvements
- Fixed an issue where positioning, after a restart of the receiver, at high aircraft velocities was slower than normal

- Updated OmniSTAR HP library to 8.44
- Update to NMEA2000 PGN 129029 - the age of correction does not roll over to zero at 255 seconds, it now remains at 255
- Velocity limits updated from 515 m/s to 600 m/s
- Updates to BeiDou satellite tracking

New features and changes for ProPoint receivers between firmware versions 6.23 and 6.26

All features listed in the section [New features and changes between versions 5.63 and 5.66](#) on [page 2](#) also apply to version 6.26 of the ProPoint firmware unless noted otherwise. In addition, the following improvements have been made to the Trimble GNSS OEM ProPoint receivers since version 6.23:

General improvements

- QZSS CLAS (Centimeter Level Augmentation Service) support added.

  Note: The CLAS service is only available for users in Japan.
- Fixed issue where SBAS PRN was not reported when in INS mode
- Fixed issue where some BeiDou RTCM MSM messages were not used in the solution
- Added Airborne dynamic models for INS positioning modes

Documentation updates

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