

PRODUCT BULLETIN

New Firmware for the Spectra Precision EPOCH 35GNSS Receiver

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EPOCH 35 Firmware v3.907 A new version of the EPOCH 35 GNSS receiver firmware is now available. Firmware v3.907 can be downloaded from the Partners website. The issue regarding the tracking of GNSS satellites has been resolved.

Firmware Installation This document outlines the basic procedures for updating EPOCH 35 GNSS firmware. This document covers **ONLY** how to update the **GNSS firmware**, which is separate and distinctly different than updating the MPU firmware.

Required:

67410-xx EPOCH 35 Receiver
54344-10 Battery (fully charged)
59046-10 Instrument cable
WinLoad Firmware loading software

Procedure

- 1) Download the firmware update file from the Partners website.
- 2) Extract the firmware update file to a directory on the computer you will use for the updates.
- 3) Use the EPOCH 35 Service Software to verify the GNSS board firmware version number.
Do not reload the same version of firmware.
- 4) Prepare WinLoad.
 - a. Check for a more current version of the firmware file on Spectra Partners or web site.
 1. If a newer file is available, download it and place it in the WinLoad directory.
 - b. Double click on WinLoad.exe to launch the program.
 - c. Click on File | Open File.
 1. Select the firmware .hex from the X.xxx Update Disk directory (where X.xxx is the version number of the firmware you are loading).
 2. The Write Flash and Query Card buttons will become active once the hex file is loaded.
 - d. Click on Settings | Com Settings...
 1. Ensure the Com Port is set to the COM port of your PC that the instrument cable will be connected to.
 2. Ensure the Download Baudrate is set to 115200.
 3. Ensure the Connect Baudrate is set to 9600.
 4. Click OK to close the Com Port Setup dialog box.

5) Prepare the EPOCH 35.

- a. Insert the battery.
- b. Plug the instrument cable 7-pin Lemo connector into COM port **2** of the EPOCH 35.
- c. Plug the instrument cable 9-pin connector into your computer.
 1. NOTE: If you are using a laptop computer, it is best to **not** make the connection through a docking station.

6) Make the connection.

Several steps must happen in succession so please **read the following steps first** and then do the procedure:

- a. Press the power button on the EPOCH 35. You will hear a beep. Immediately after hearing the beep, press the down arrow button on the receiver.
 1. The receiver will display a message indicating it is in GNSS firmware loading mode and to connect the cable to COM 2.
- b. The receiver will then start a countdown starting at 9.
- c. When the countdown starts on the EPOCH 35, click on the Write Flash button in WinLoad.
- d. Once the EPOCH 35 countdown reaches 0, the WinLoad software should establish communication with the EPOCH 35.
- e. The WinLoad software will download data from the GNSS board and display it on the screen.
 1. WinLoad will find the serial number for the board in its database and then display the Authorization code.
 2. If the WinLoad software cannot find the EPOCH 35's serial number in the database, it will prompt for the Authorization code. If you do not have an Authorization code, click on the CANCEL button and contact Spectra Precision Support.
 3. **WARNING: Loading the GNSS board firmware without an authorization code will disable the RTK features. The EPOCH 35 will not operate if this happens and will show ERROR 01 on the display.**
- f. The firmware loading sequence will now start.
- g. When Winload completes the procedure, it will show "done" in the display window.

7) Perform a factory reset on the EPOCH 35.

- a. Open the battery door and remove the battery.
- b. Replace the battery.
- c. Press and Hold the power button.
- d. "EPOCH" and then "FRESET" will display on the screen. The receiver will beep five times and then "GPS OFF" will display.
- e. Let go of the power button.
- f. Turn the receiver off.
- g. The EPOCH 35 should boot as normal.