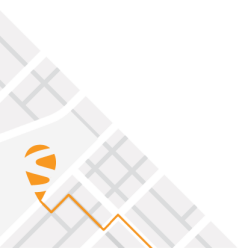




Release Notes and Installation Guide

AsteRx4 Firmware Package v4.10.0



1 Installation Guidelines

In order to upgrade the firmware to version 4.10.0, only the following file is to be installed on the receiver:

SUF file	Located in	Contains
AsteRx4-4.10.0.suf	firmware/	See section 6

There is no need to install the file AsteRx4-4.10.0-failsafe.suf, unless Septentrio Support advises otherwise.

2 New Features and Improvements

2.1 New features in version 4.10.0

1. BeiDou Phase III signals (B1C, B2a and B2b) are now encoded in RTCM3 MSM according to the second addendum to the RTCM version 3.3 standard.
2. The satellite timing system used for the positioning is now selected automatically by default. GLONASS cannot be used.
3. IP over USB is now available.
4. QZSS support has been added to the positioning engine.

2.2 Improvements in version 4.10.0

1. The NMEA talker ID for BeiDou has been changed from BD to GB in accordance with the NMEA version 4.11 standard.
2. Login with Ed25519 SSH keys is now supported.
3. An issue related to an invalid UTC time field at startup of the receiver in the NMEA interface has been resolved.
4. Decoding of Galileo ephemerides at cold startup has been improved.
5. Interoperability with VRS bases has been improved.
6. TLS 1.3 is now supported.
7. Galileo compatibility in the moving base application has been improved.

2.3 New features in version 4.8.3

None

2.4 Improvements in version 4.8.3

1. The receiver has been made more robust against software upgrade through COM3 port.
2. The identification of AsteRx4 4.8.3 software is now in accordance with the Septentrio software naming convention.

3 Known Issues and Limitations

1. If the message "USB device not recognised" is shown on the PC after an upgrade of the receiver firmware, it is recommended to restart the receiver. Afterwards, the USB connection will be functional again.
2. Only the receiver's LVTTL serial ports can be configured at 460800 bps. The RS232 serial ports do not support the high baud rate.
3. It is not possible to upgrade the receiver using mobile Safari on iOS devices.
4. If more than one user simultaneously changes settings via the web interface, the resulting configuration of the receiver may not be consistent.
5. The web server on the receiver has been tested with Chrome (version 61), Firefox (version 55) and Internet Explorer (version 11). If you experience any problems with your browser, please use a different client application.
6. IPS connections may stay visible in the web interface after the client has been disconnected.
7. The NTRIP server connection is sometimes not reliable when connected to a caster running "Professional Ntrip Broadcaster" (up to v2.0.22).
8. Firewall on computers can delay accepting connection by up to 4 minutes. Before using IPR functionality ensure that the desired IP port is enabled on your computer.
9. Moving base output is limited to 20 Hz.
10. The generation rate of GBS and GRS NMEA sentence is limited to 1 Hz.
11. When accessing the webUI over HTTPS, occasional CPU overloads can be detected.

4 Support

For further information or support, please consult the Septentrio support website (<http://www.septentrio.com/support>).

5 Legal Notice

Septentrio does not authorize the use of its products as critical components in devices or systems intended for safety-of-life applications or in devices or systems, of which the failure may endanger life or cause injuries, unless written approval is given.

All the firmware and documentation delivered with the AsteRx4 Firmware Package is licensed, as explained in the About page which is accessible via the web interface of the receiver.

6 System Components and Versions

Product: AsteRx4 Version: 4.10.0 Receiver Platform: SSRC7 Release Date: 18 June 2021	version	AsteRx4-4.10.0-failsafe.suf	AsteRx4-4.10.0.suf
Failsafe	9.0.2-g6e95581	Y	
Operating System	9.0.2-g6e95581		Y
GNSS Firmware	6.10.2-g92d2286c1e		Y
Antenna Information	2.13.0-e47835c0		Y