



Release Notes and Installation Guide

AsteRx-U Firmware Package v4.5.0.1



1 Installation Guidelines

In order to upgrade the firmware to version 4.5.0.1, the following files must be installed on the receiver in the indicated order:

	SUF file	Located in	Contains
1.	AsteRx-U-firmware-4.5.0.1-OS_failsafe.suf	firmware/failsafe/	See Section 6
2.	AsteRx-U-firmware-4.5.0.1-full.suf	firmware/	See section 6

2 New Features and Improvements

2.1 New features in version 4.5.0.1

None

2.2 Improvements in version 4.5.0.1

1. Stability and performance have been improved.
2. A number of potential security issues have been addressed.

2.3 New features in version 4.5.0

None

2.4 Improvements in version 4.5.0

1. BeiDou signals BDSB1, BDSB2 & BDSB3 were renamed to BDSB1I, BDSB2I & BDSB3I.
2. Some permissions have been renamed to reduce ambiguity.
3. An auto mode was added to the NMEA talker ID. This auto mode allows for flexible talker ID, depending on the constellations used in PVT.
4. Support of IRNSS (NavIC) satellites I08 to I14 has been added.
5. The number of available IPR/TCP2way ports has been increased from 3 to 5.

6. From now on the "Viewer" access level will be the default access level for the "Disk" (instead of "User"). This will e.g. prevent unauthorised people to remove or add data to the disk(s), through anonymous ftp, on a receiver with factory default settings.
7. Heading performance in difficult conditions has been improved.
8. An ExtEventBaseVectGeod block was added to create trigger the generation of a BaseVectGeod SBF block on ExtEvent.
9. The NMEA THS sentence is introduced. This sentence provides critical safety related information about the heading data and complements the HDT sentence.
10. For maximum flexibility in heading offset, it is now possible to enter values from -360 to +360 degrees.
11. The Firmware now supports hardware variants of the AsteRx-U that do not carry a factory installed cell modem.

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. When the user attempts to pair a second Bluetooth device while the receiver is streaming data to an already connected device, the data stream may be interrupted during the pairing attempt. The receiver will remain connected to the already connected device.
3. Data cannot be streamed through the Bluetooth port at a rate higher than 5Hz.
4. Due to incompatibility with the T-Mobile IPv6 network, outgoing IP connections are not possible. If outgoing IP connections are required, the user can use the AT&T network.
5. When accessing the webUI over https, occasional CPU overloads can be detected.
6. If more than one user simultaneously changes settings via the web interface, the resulting configuration of the receiver may not be consistent.
7. 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.
8. UDP functionality does not work over Cellular interface.
9. It is not possible to upgrade the receiver using mobile Safari on iOS devices.
10. 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.
11. The NTRIP server connection is sometimes not reliable when connected to a caster running "Professional Ntrip Broadcaster" (up to v2.0.22).
12. Some cellular networks require the configuration of an APN even for 2G connections.
13. Moving base output is limited to 20 Hz.
14. The generation rate of GBS and GRS NMEA sentence is limited to 1 Hz.
15. To reliably upgrade the receiver over a serial port, it is advised to use COM2 and activate flow control.
16. IPS connections may stay visible in the web interface after the client has been disconnected.

4 Support

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

5 Legal Notice

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6 System Components and Versions

Firmware Package: 4.5.0.1 Applicable Product Group: AsteRx-U Receiver Platform: SSR7 Release Date: 17 December 2019		version	AsteRx-U-firmware-4.5.0.1-OS_failsafe.suf	AsteRx-U-firmware-4.5.0.1-full.suf
Failsafe	5.4.0-g0a11244	Y		
Operating System	5.4.0-g0a11244			Y
GNSS Firmware	6.2.0.1-r76748			Y
DSP Firmware	4.2.4			Y
Antenna Information	2.12.0-969f3b19			Y