

## Release note

**Topic** FW 3.05 HPG 1.43 – firmware for NEO-M8P products  
UBX-21035325 C1-Public  
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**Date** 10 January 2022

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### Contents

<b>1</b>	<b>General information</b>	<b>1</b>
1.1	Scope	1
1.2	Related documentation	1
1.3	u-center	1
<b>2</b>	<b>Released firmware image</b>	<b>2</b>
<b>3</b>	<b>New features</b>	<b>2</b>
<b>4</b>	<b>Dropped features</b>	<b>2</b>
<b>5</b>	<b>Functional improvements</b>	<b>2</b>
<b>6</b>	<b>Known limitations</b>	<b>2</b>
<b>7</b>	<b>Changed default configuration</b>	<b>2</b>
<b>8</b>	<b>New and modified messages</b>	<b>2</b>

## 1 General information

### 1.1 Scope

This release note (with minor corrections made in January 2022) describes flash firmware version FW 3.05 HPG 1.43 for the NEO-M8P high precision GNSS receiver. It covers the functional improvements compared to u-blox flash firmware FW 3.01 HPG 1.40.

This firmware version FW 3.05 HPG 1.43 is installed in production on the latest NEO-M8P-0 and NEO-M8P-2 module versions. The firmware is fully backward-compatible and can be used on any NEO-M8P-0 and NEO-M8P-2 module.

### 1.2 Related documentation

- [1] NEO-M8P firmware (FW3.01 HPG 1.40) release note, [UBX-17021504](#)
- [2] NEO-M8P Interface description, [UBX-13003221](#)
- [3] NEO-M8P integration manual, [UBX-15028081](#)
- [4] NEO-M8P data sheet, [UBX-15016656](#)
- [5] u-center v20.06 release note, [UBX-20010557](#)

### 1.3 u-center

It is recommended to use the latest u-center evaluation software with the released FW. At the time of issue of this document, the u-center version is 21.09.

## 2 Released firmware image

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Released firmware image for u-blox NEO-M8P	
File	UBX_M8_305_HPG_143_REFERENCE.4afe47902b3d8068a4fedccd45b8e6be.bin UBX_M8_305_HPG_143_ROVER.74d7454b395e2fdf680d864f40b9dbed.bin
Firmware version	EXT CORE 3.05 (ff96ba) FWVER=HPG 1.43REF EXT CORE 3.05 (ff96ba) FWVER=HPG 1.43ROV
ROM base support	ROM 3.01 ROM 2.01

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## 3 New features

No new features.

## 4 Dropped features

No dropped features.

## 5 Functional improvements

- Improved MSM correction stream handling
  - Extended capability to handle MSM correction streams, also including messages other than the ones supported by the receiver (GPS, GLONASS, and BeiDou).
  - Extended capability to handle MSM correction streams including SBAS messages.
- Improved M8P base station BDS D2 encoding
  - Extended support for BDS\_B1ID2 signals on GEO satellites.

## 6 Known limitations

- A change in reference station ID for a reference station providing GLONASS corrections, combined with concurrent data outage (e.g., in case of a temporarily broken communication link) could occasionally result in mixing the correction data of the new reference station with position data from a prior reference station. As a possible consequence, position errors may be temporarily observed.
- A NEO-M8P rover can use corrections from a ZED-F9P reference station only if the latter is configured to deliver GPS and GLONASS corrections.

## 7 Changed default configuration

- The revision ID in the software version string (boot screen, UBX-MON-VER message) now displays a hexadecimal instead of a decimal number.
- The default value for GPS leap seconds (UBX-CFG-NAVX5.leapSec) and GPS week number rollover (UBX-CFG-NAVX5.wknRollover) has been updated to reflect the time of release.

## 8 New and modified messages

No new or modified messages.