



PRECISE POSITIONING MANAGEMENT



# ppm10xx – GNSS RTK System

## Release note for firmware version 3.05



Penzberg, April 15, 2025



## Firmware - Overview:

Firmware version **3.05** for the ppm10xx zero and BT from April 15, 2025.

**Release date:** April 15, 2025

**Available for:** ppm10xx zero and ppm10xx BT. Models with internal battery. (not suitable for the ppm10xx-38 without internal battery).

**Compatibility:** ppm-Commander software for **Android** from version 3.0.1  
ppm-Commander software for **Windows** from version 3.1.0.1

**Available:** On the ppm website at  
<https://ppmgmbh.com/produkt-support-download/>  
Follow the instructions for loading the new firmware at the end of these release notes.

**Can be loaded by:** The user himself.  
On request from ppm Service for a service fee. Please write to [support@ppmgmbh.com](mailto:support@ppmgmbh.com)

**Requirements:** USB-C data cable or USB-A data cable



Windows computer.

**Product manual:** An updated manual is available at  
[product-support-download](https://ppmgmbh.com/produkt-support-download/)

**Previous version:** 2.18



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### **Explanation:**

We strive to keep your measuring device the cutting edge of technology and to safeguard your investment over the long term.

We do this to maximize your competitiveness and productivity and to achieve the highest level of satisfaction for you.

**We are already working on the next version and innovations for you - for sustainable products and customer satisfaction!**

Your team ppm GmbH.

[www.ppmgmbh.com](http://www.ppmgmbh.com), [info@ppmgmbh.com](mailto:info@ppmgmbh.com), Grube 39A, 82377 Penzberg.

## New features of firmware V. 3.05.

The following innovations are available for the ppm10xx models with integrated rechargeable battery, the ppm10xx BT (with integrated Bluetooth module for wireless connection to a tablet) and the ppm10xx zero (additionally with tilt compensation for inclination measurement).

### 1. Intelligent memory management - for simple firmware updates.

The memory management of the ppm10xx has been completely revised. This allows you to easily update the firmware yourself. You can update the new firmware yourself using a small download tool (flasher) for uploading the firmware to the ppm10xx. No service visit to your ppm10xx is required. Loading the new firmware only takes a few minutes. You do not lose any valuable time and benefit immediately from the new functions of your ppm10xx RTK system.



☐ Upload instructions at the end of the document.

### 2. More efficient battery management - for faster charging.

The software part that controls the charging of the internal battery of the ppm10xx has been expanded with many functions. This enables shorter charging times and better transparency of the charge status display of your ppm10xx during charging and operation. The new features are



*New: Special charging mode of the ppm10xx.*

#### *In front of the store:*

The ppm10xx now has **its own, pure charging mode** for gentle yet faster charging of the battery. The ppm10xx no longer needs to be switched on for charging. Simply plug your ppm10xx into the charging cable and it automatically switches to charging mode.

#### *During charging/ new LED charging indicator:*

In charging mode, only the charging control is switched on, the ppm10xx receiver with the other components remains off.

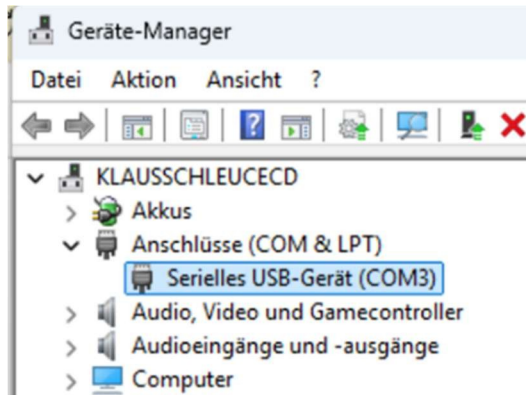










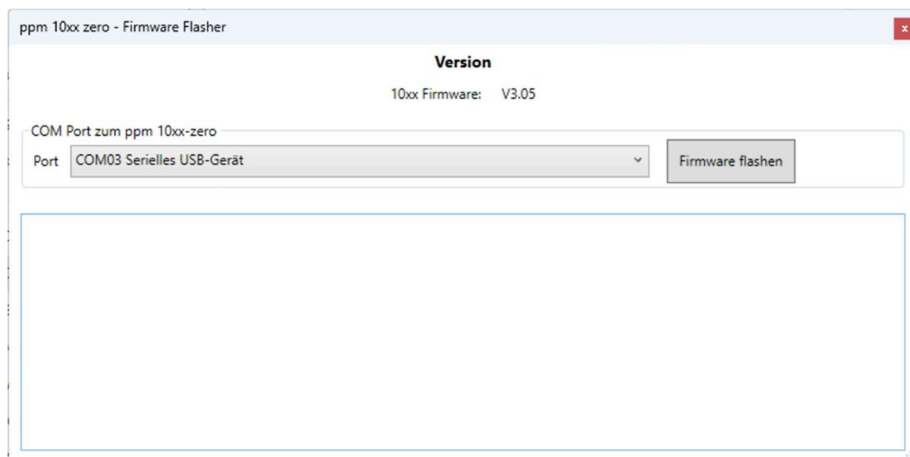


Windows Device Manager - here, for example, the port "COM3" is assigned to the ppm10xx.

- Double-click to start the flasher.

The flasher normally recognizes the COM port of the ppm10xx automatically and displays it in the "Port" selection field.

If the detection does not work, please select the port manually:



Start window of the "Flasher" for the firmware update of your ppm10xx.

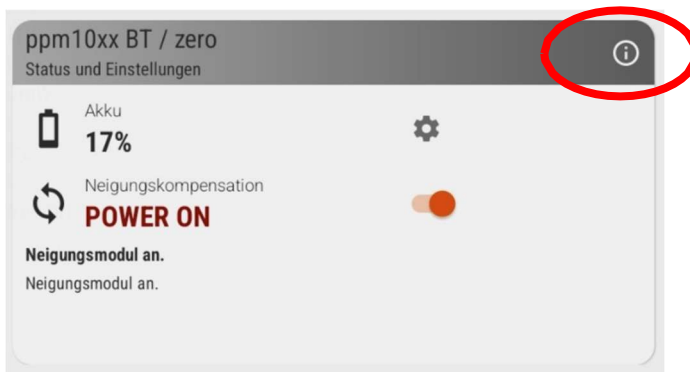
- Click on "Flash firmware" to start the firmware update on the ppm10xx and several messages will appear in the program's message window.
- Before the last step, the ppm10xx is switched off and on again.  
Therefore, the COM port is closed and by Windows. If the opening of the COM port in Windows is not successful, the flasher will ask you to briefly unplug the USB cable of the ppm10xx and plug it in again. The

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Port is then reopened and the last step is completed. A message confirms the successful update.

- You can unplug your ppm10xx and then connect it to the ppm Commander as usual.

Click on the information about your ppm10xx in the ppm-Commander:



Click on the small white "i" on the right-hand side.

(i)
ppm10xx BT / zero

Status	
Datum	01.01.1950
Zeit	00:00:00
Version / Hash	D / IYI6
Stromversorgung	USB
Leistungsaufnahme	3471mW
CPU Last	15%
Temperatur	40,2°C
Restkapazität Akku	17%
Neigungskompensation	POWER ON
Firmware Version	
IMU	IM19_H2_B2.2_A5.7
Bluetooth	28.11.8.0
u-blox	27.30
10xx,30xx	3.05
Hardware Version	
u-blox	HPG 1.30
10xx,30xx	2

The currently installed firmware version can be seen **in line 10xx, 30xx**:



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**Have fun and success with your most powerful ppm10xx GNSS RTK rover ever!**

If you have any questions, please [support@ppmgmbh.com](mailto:support@ppmgmbh.com)

### Teaser 🏠

Our developers have been busy and have added even more new functionality to the firmware **(thank you!)**. We will make some of these functions visible with the next versions of the ppm-Commander.

**Stay tuned - we are constantly striving to make your measuring device even better and more efficient for you!**

Your team ppm GmbH!

[www.ppmgmbh.com](http://www.ppmgmbh.com), [support@ppmgmbh.com](mailto:support@ppmgmbh.com) , Grube 39A, 82377 Penzberg.

