



Guide „step by step” on how to use the app: MP2S-CAN Bootloader

[1] Preparation PC for connection of the module:

[1a] Before first time connection the Bootloader (*when the FTDI drivers are not yet installed in the system*), download the FTDI drivers from the manufacturer's website:

<https://ftdichip.com/drivers/>

or from website [quasarelectronics.pl](https://www.quasarelectronics.pl):

<https://www.quasarelectronics.pl/en/files/196/QE-FTDI-drivers-for-Windows.zip>

[1b] next BEFORE connection the Bootloader to the PC - install downloaded above drivers (*file with drivers from [quasarelectronics.pl](https://www.quasarelectronics.pl) is compatible for all versions of Windows – starting 7 and later*);

[1c] still BEFORE connection the Bootloader to the PC, open the "Device Manager";

[1d] now connect the Bootloader to the USB port - the first time Windows system "will be to want to do something more", i.e. configure the previously installed drivers for itself;

[1e] observe the „Device Manager” under „COM and LPT” and note the new COM port that appears in the list;

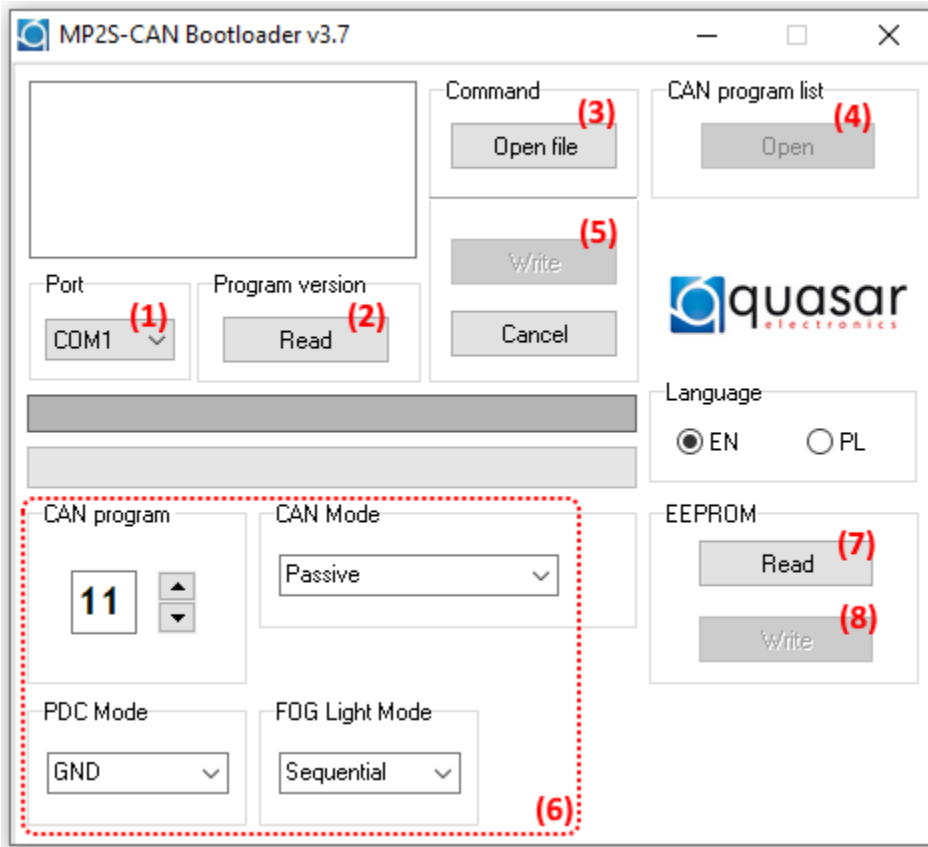
NOTE: next time it is recommended to use the same USB port socket - this will be also the same COM port numer.

[2] Podłączenie modułu MP2S-CAN do Bootloadera

[2a] NOTE: during programming, the module is powered directly from the Bootloader;

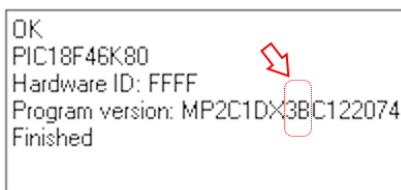
[2b] to connect MP2S-CAN module to earlier (step **[1]**) connected Bootloader;

[2c] to run app MP2S-CAN Bootloader (latest version);



[2d] Select COM port from list **(1)** according to step **[1e]** above;

[2e] Click on **(2)** and in small terminal windows will be information from connected module – or message about an error – below picture (when all is OK):



[2f] there is always a firmware version symbol in the place marked above;

[2g] after click on **(7)** – will be visible current configuration of the module in area **(6)**;

IMPORTANT – in case of the firmware update, carefully save or copy this section of the image **(6)** because uploading of the new firmware version ALWAYS sets the factory test program !

INFO - the three parameter settings shown above (apart from the prog. num.) are typical for passive operation of the module (CAN-Bus read only - and this is the case for most of the items on the compatibility list);

[3] Change of program number (e.g. adaptation for use with a different vehicle than specified at purchase);

[3a] FIRST should be made step **[2g]**;

[3b] change „CAN program” using up/down arrow or typing direct number (of course properly according to compatibility list);

[3c] verify the correctness (and change if necessary) of the other settings in area **(6)**;

[3d] click on **(8)** to save settings to the module – when the progress bar fills up (this is a quick process) and the "small terminal window" **[2e]** shows a message that the settings have been saved correctly – the procedure is complete and the module can be disconnected from the Bootloader;

[4] Firmware update;

[4a] remember about hardware versions of the device and the corresponding firmware files; when you download the ZIP file with firmware from the website, it contains files for all hardware versions; there is also included a PDF file for easy identification "which version to choose for your module" if it is an older module; currently manufactured modules have a clear description on the cover which firmware version to use; in addition - from November 2023 modules have a software lock to prevent the upload of incorrect firmware version;

[4b] prepare the firmware file (extension HEXFW) and perform the entire step **[2]**, making sure that the version to be uploaded is newer than the one in module is (it is possible to upload a lower/older firmware version) and remember exactly the current settings **(6)** of the module;

[4c] click on **(3)** and open file prepared in step **[4b]** above;

[4d] click on **(5)** and wait for about 1-2 minutes - you will see a green progress bar (as described in point **[3d]**) and then the module automatically will be set to factory test settings (as described at the end of point **[2]**);

[4e] set all remembered settings **(6)** from step **[4b]** and click on **(8)**;

[4f] UPDATE DONE – now the module can be detached from the Bootloader and (re)installed in the car;

INFO – after opening the firmware file (step **[4c]** above), you can open the TXT version of the programs list and supported cars for the that version of the firmware file - by clicking on **(4)**, due to its condensed version, it may not contain all the cars listed in the full compatibility list in the PDF version available for download from website www.quasarelectronics.pl/en/

Short videos on MP2S-CAN push-button operation:

Click on the picture or scan with your smartphone:

