Instruction manual

Firmware Manager

All devices

Version 1.0

English

Release

EcuPlus®
ITALY

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Content index:

1.0 Introduction

Thank you for having bought the EcuPlus® products and we hope you can get the best satisfaction from it. This guide will show you how to update the firmware using the EcuPlusFwManager software.

In this chapter you can find the following information:

1.1 Information about this Manual
1.2 Conventions and terminology used
1.3 Technical support

1.1 Information about this Manual

**Search
quickly
the information**

The user guide provides the following aids to facilitate use:

➢ In the footer you can see which version corresponds to the user manual

➢ Use of graphic symbology to focus on the importance of information Exposed

1.2 Conventions used

The following table describes the conventions used in this manual regarding the symbols used.

⚠ WARNING	Dangerous operation for your safety
🛑	Operation not allowed
ℹ	Relevant information
⚠	Pay attention

1.3 Technical support

Do you need support?

Before contacting EcuPlus®, we recommend that you read this document carefully. You can get technical support by calling the number: +39 3892137716 or by writing to: technical@ecuplus.it

2.0 EcuPlusFwManager

2.1 Minimum requirements needed

PC o notebook:

➢ **Processor**

clock ≥ 1,5 GHz

➢ **Internal memory**

≥ 500 MByte RAM per Windows XP
≥ 1 GByte RAM per Windows 7\8\10

➢ **Minimum screen resolution**

Graphic card DirectX 9 with driver WDDM 1.0 or superior

➢ **USB**

a free port for connection to the ECU

➢ **Operating system**:

Windows 7\8\10 (32 & 64 Bit, All Service Pack)
Windows XP (32 Bit, Service Pack 3)

2.2 Software installation

The EcuPlusFwManager software is automatically installed in the source folder, during the installation of the EcuPlus Manager software as well as the most recent firmware file at the time of the EcuPlus Manager software release.

Before starting the firmware update operation, check on the website www.ecuplus.it If a more recent version of both the software and the firmware file is available, together with the relative operating notes.

2.3 Software compatibility with EcuPlus units

At the time of writing this guide, the EcuPlusFwManager software is compatible with the following electronic units:

- EcuPlus models **TC-I** Easy - **Easy K** - *Easy Counter T3*
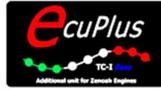
(all serial number)

2.4 Procedure for checking the firmware version present in the TC-I Easy / *Easy K*

Before proceeding if you are using a notebook, make sure you have sufficient remaining battery life (Min 15%).

1) Close the EcuPlus Manager application if open
2) Connect the Usb cable to a free port on the PC or notebook
3) Connect the TC-I Easy or Easy K to the 5 Pin circular connector
4) Avviare l'applicazione EcuPlus Manager e stabilire la connessione con TC-I Easy

5) Press the 'Download data from ECU' button to download the contents of the regularly connected TC-I Easy

6) Press the 'Setup ECU' button to access the ignition setup form.

6.a) Select the 'Ignition Setup' Tab shown in the following image:
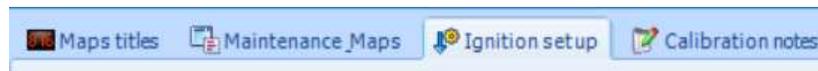
At this point, EcuPlus Manager will show the current version of the hardware and firmware used in the connected TC-I Easy, as shown in the following figure:

The reference inside the red box indicates the current firmware version present in the TC-I Easy which in the example corresponds to version 1.1.

 If a newer firmware version is available (higher sequence number), then it It is convenient to proceed with the programming of the ECU following the steps described here in following. For updates, check availability on the website in the Download section software. However, it is possible to reprogram the TC-I Easy and Easy Counter T3, even with older firmware versions.

2.5 Firmware update procedure Easy – *Easy K*

Close the EcuPlus Manager application and start the Firmware Manager.
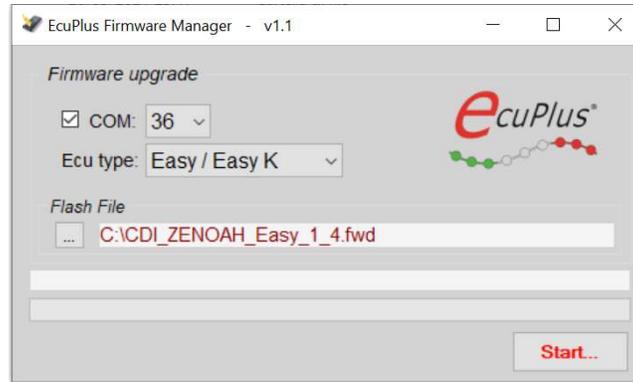
1) Select the COM port from those available in the drop-down menu (where the TC-I Easy / Easy K is connected), place the check mark relative to the COM port and select the path where the firmware file to be loaded is present (**fwd** extension).

2) Select the type of ECU you want to update
3) When ready, click the '**Start...**' button to start programming: the following confirmation request message will appear:
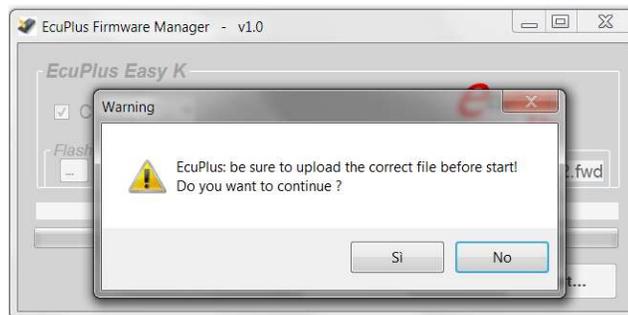
4) Confirm by clicking the 'Yes' button to start programming. The progress is represented by a colored bar (see following image).
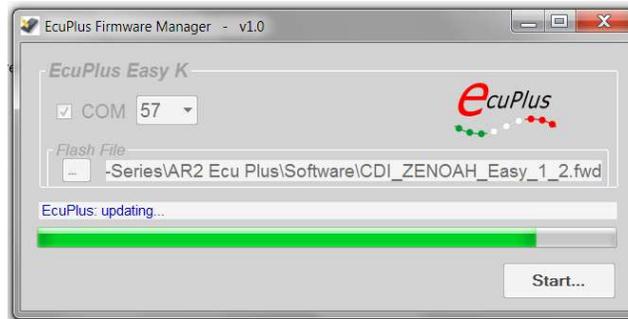
The time required for reprogramming depends on the size of the firmware and is generally about **1.5 minutes**. When the procedure is correctly completed, the following warning message will appear:
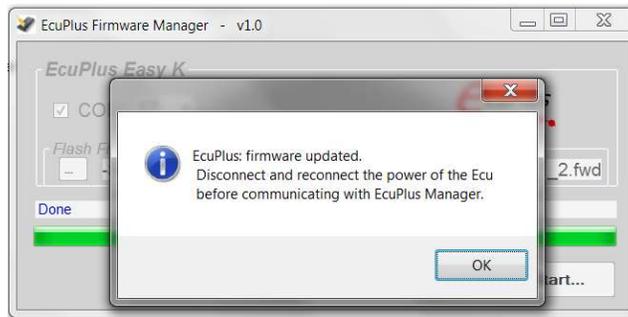
5) Confirm by clicking the OK button, close the EcuPlus Firmware Manager software

6) Disconnect the TC-I Easy from the programming cable connector

7) Start EcuPlus Manager and repeat the procedure steps from point (1) to point (6.a) of chapter 2.4, in order to check if the new firmware present in the TC-I Easy is the one expected, as shown in the example of the following figure:

End of the firmware programming procedure

 If for some reason the firmware update procedure is interrupted, disconnect the power supply of the ECU and restart from point 1.

2.6 Procedure for checking the firmware version present in the Easy Counter T3

To check the firmware version installed in the Easy Counter T3 device, simply press the MENU button if the device is off or wait for the device to switch off and then press the MENU button.

At start-up for about a second of time, Easy Counter T3 shows the wording HFW = X / Y, where X corresponds to the hardware version and Y to the firmware version, see the following figure:

2.7 *Easy Counter T3* unit firmware update procedure

1) Start the Firmware Manager software, select the corresponding COM port where the device is connected, set the port activation flag and in the Ecu type menu, select Easy Counter T3 as shown in the following image:
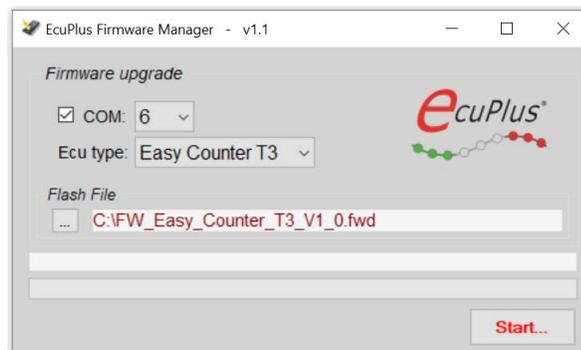
2) Make sure the Easy Counter T3 device is turned on or press the MENU button
3) Press the '**Start...**' button, make sure you have selected the correct firmware file for the device and confirm with the Yes button as shown in the following figure:
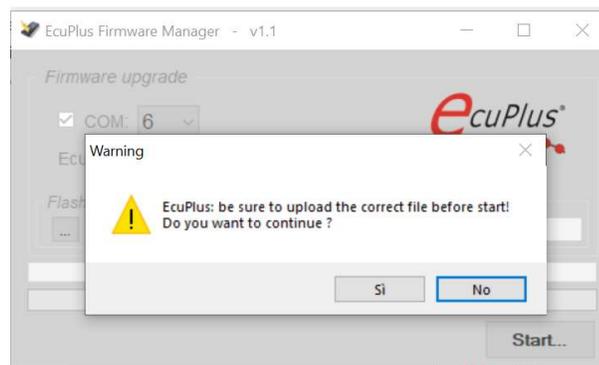
The programming start procedure will begin and the following image will appear on the Easy Counter T3 device:
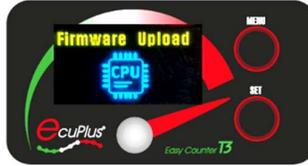
At the same time, the firmware programming progress bar will advance as shown in the following image:
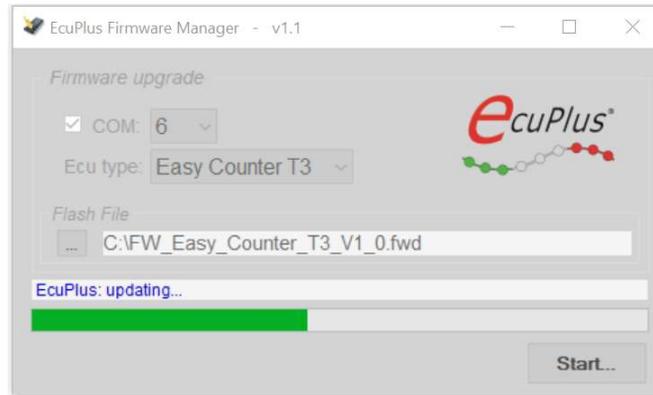
The time required for reprogramming depends on the size of the firmware and is generally about **1.5 minutes.**

At the end of programming, the following warning message will appear and the Easy Counter T3 device will return to normal operating mode:
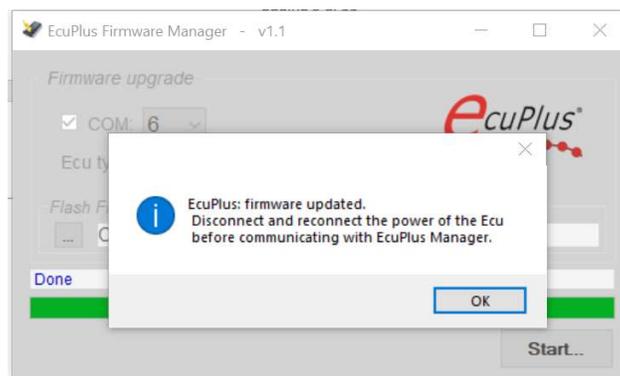
End of the firmware programming procedure: Easy Counter T3 is now ready to be used.

 Avoid interrupting the firmware update procedure otherwise the device will remain in a data waiting condition and in order to retry the firmware update operation, it will be necessary to wait until the LiPo battery runs out.

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