

M28 UPDATE PROCEDURE

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Before you start the update process, download version 1.44 or RB Config to your PC/Mac from our software page and install it.

Also, make sure that your M28 is fully charged so that the update process isn't interrupted due to lack of power.

FIRST STEP

After RB Config version 1.44 has been installed, start the program and make sure that your PC/Mac is connected to internet.

When RB Config 1.42 is started for the first time, two files will be automatically downloaded:

- PMIC 0193 – the Firmware for SE7EN
- FW 2.42 – the Firmware for M28

Next, make sure your M28 is powered up and then connect it to your PC/Mac using the charge cable, thus establishing a CAN connection between your PC/Mac and your M28. Once this connection has been made, click on the CAN symbol in RB Config. (the circle with 4 dots in it).

In the CAN menu of RB Config, choose "M28 update" to start the update process.

First, RB Config will update the PMIC software on your M28 via CAN.

Once that's done, you will be asked to start the Wi-Fi on your m28. Now, the M28 firmware will be updated.

The MOST important thing now, is for you to be PATIENT and let the update process run its course, as intended!

If you interrupt the update process, chances are your M28 will stop working.

After the M28 has re-booted, your M28 is now updated.

If your M28 doesn't power up, make sure that you have it plugged in to a USB charger that generates 5.1V/1A. The M28 needs the 5.1V kick-start to get past the blinking red/green status. In some cases, the USB connections on PC/Mac don't generate enough voltage to get the M28 through this start up process.

SECOND STEP

The USB charge cable has a power protection circuit installed in the USB connection, with the purpose of protecting the M28 and SE7EN from high current. This circuit has a software that needs updating.

Connect the charge cable to your M28 and then plug the USB end in to a USP charger or a USB port on your PC/Mac.

When connected, click on both buttons on your M28 to enter the menu system.

Select "Firmware update" in the menu system and you should see that the update is running by the text "Updating CUSB" appearing on the M28 screen.

Note that the M28 needs a minimum of 30% battery charge for the update process to start.

Now the update process on the M28 is completed.

If you connect your M28 to a SE7EN, you can update the SE7EN by clicking the two buttons on your M28 and selecting "Firmware update" in the menu.

You can update your CPOD, HUD or DISPLAY by using the same method.

It's also a good practice to also update your paddle display, if you have one, so that you have an up to date back-up if you need it.

To update your paddle display, do the following:

- Connect your paddle display directly in to your M28.
- Then select "Settings/Connect/Power Out - ON".
- Exit the menus
- Click on both buttons on your M28 and select "Firmware update".
- Paddle display will be updated.

Actions to take if the update fails.

The M28 has two folders where the two firmware files are saved:

- One for the PMIC software for SE7EN
- One for the M28 Firmware

For the update to work, both folders and files needs to be present and the versions needs to be synchronized. This synchronization is done automatically by RBConfig 1.44.

It's very important that you are patient during the update process and don't stop/interrupt it because it seems nothing is happening. The update process takes time and if you interrupt it, it will take a lot longer. In the case that the update doesn't work, then you need to do some of the update steps manually. When the update process starts, a check is done to see what Firmware version is installed on your M28. If the installed FW version is outdated, then the update process is initialized. First step is to erase the folders on the M28 and download/create new folders with the latest Firmware versions. If this process is interrupted, then there will be no Firmware folders on the M28 and the whole update process is corrupted and your M28 won't function properly. To overcome this, you need to override the FW version check and manually download the latest FW versions thus creating the two FW folders again.

Connect your M28 to your PC/Mac by CAN cable and in the CAN menu select "Forced Firmware±/ M28". This will install the PMIC firmware on your M28 and restart your M28. And the M28 will tell you that there is a PMCI firmware mismatch.

This is how you fix that:

Connect your M28 via CAN cable to RB Config. Select M28-Update in the CAN menu. The first step in this is already done, now you need to start WiFi and connect to this network. Once connected the update process will finish and finally reboot. Then you are updated and done.

You can never destroy anything inside your M28 or lock your M28 by failing a Firmware update. You can always use the manual method of updating to get your M28 started again and re-do the manual update process above.