

FlySky-I6 firmware manual:

Use the J-Link programmer. Attention! All actions and manipulations you perform at your own peril and risk. The authors of the firmware and this manual are not responsible for any consequences. First of all, you need to :

1. Purchase a J-Link programmer with micro USB. You can buy it here:
<https://ru.aliexpress.com/item/32669702891.html?spm=a2g0s.9042311.0.0.592633edOIT9j0>
2. Download software for working with the programmer:
<https://drive.google.com/file/d/1kMFnsvNKcvbRAceDMxxxq1yVQPdz2s6a/view?usp=sharing>



3. Download directly the firmware itself:

Alternative ER9X firmware from Konstantin Kuritsyn (Kotello) :

<https://alnado.ru/forum/download/file.php?id=3219>.

And this is the factory firmware from FlySky I6 (in case of an unsuccessful alternative firmware) -

<https://alnado.ru/forum/download/file.php?id=3220>.

Download ER9X firmware description in Russian:

<https://alnado.ru/forum/download/file.php?id=3221>

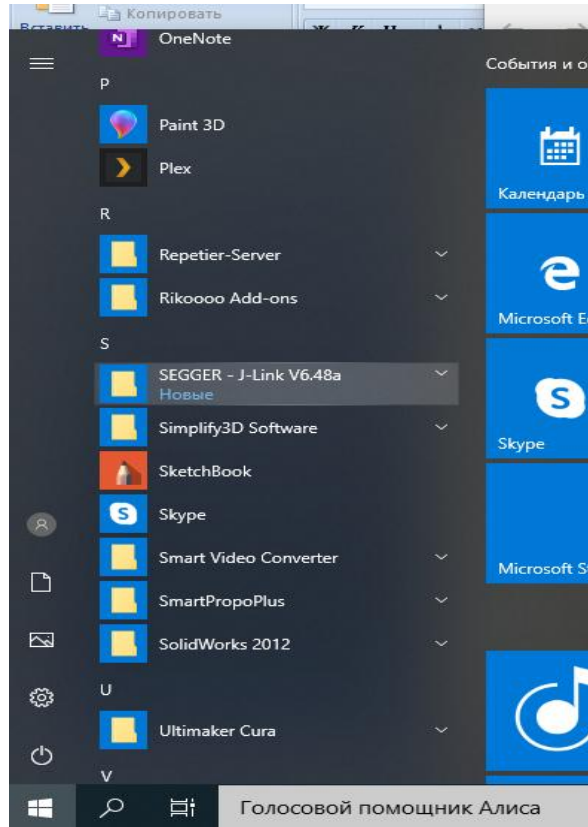
The firmware procedure itself

1. Install the SEGGER program - J-Link v6.4a

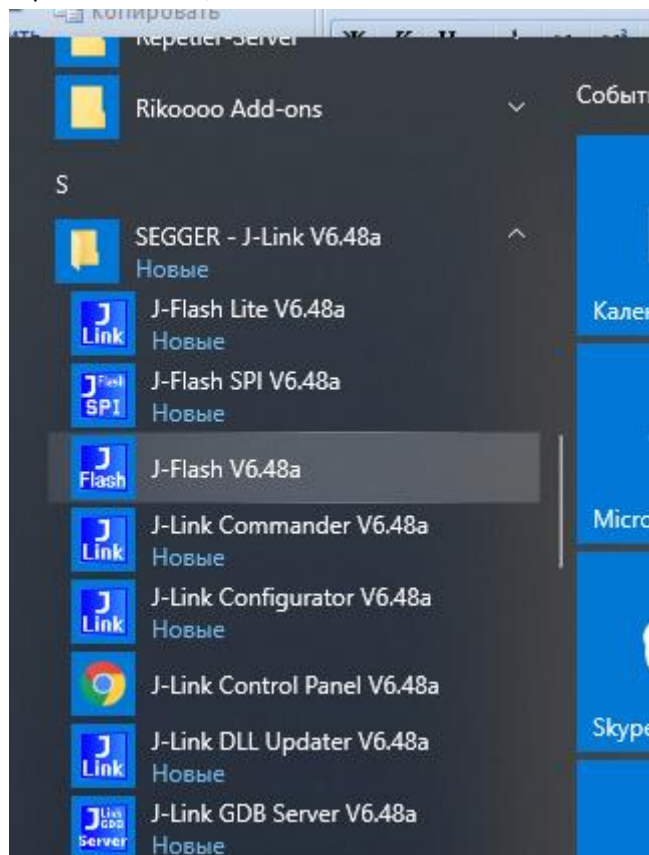


We agree with the terms of the agreement and click "Install". We are waiting for the end of the installation of the program.

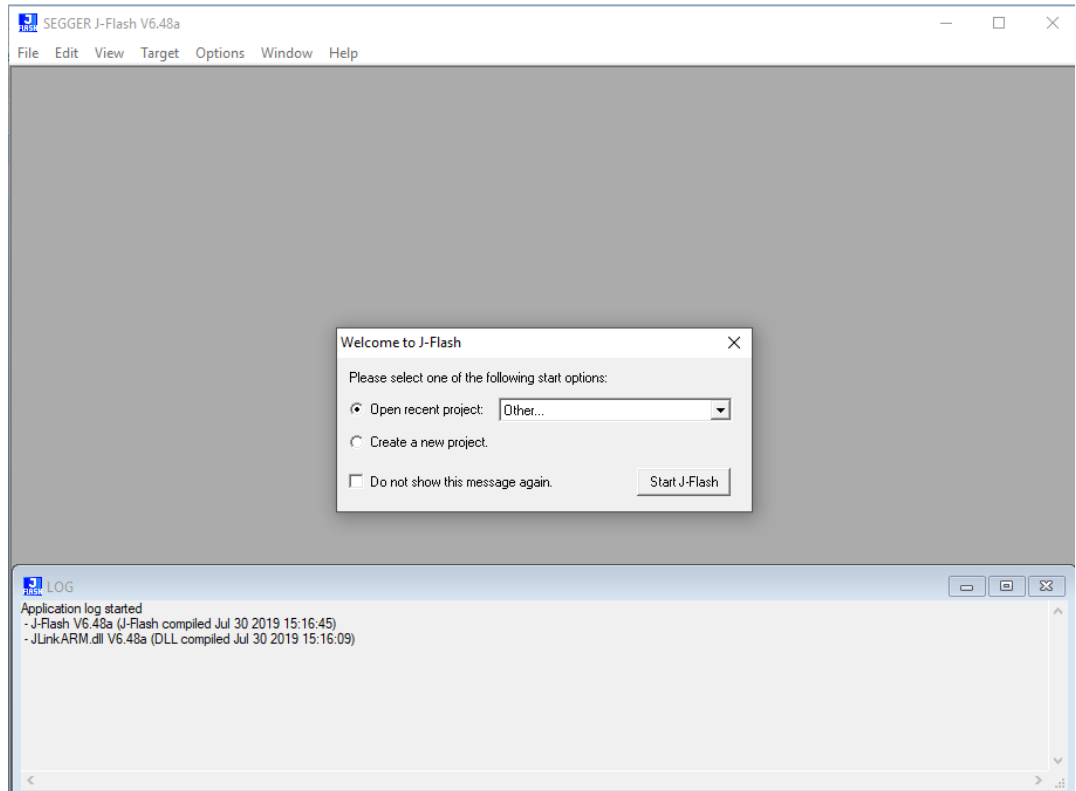
2. After installing the program, find the SEGGER folder in the "Start" menu.



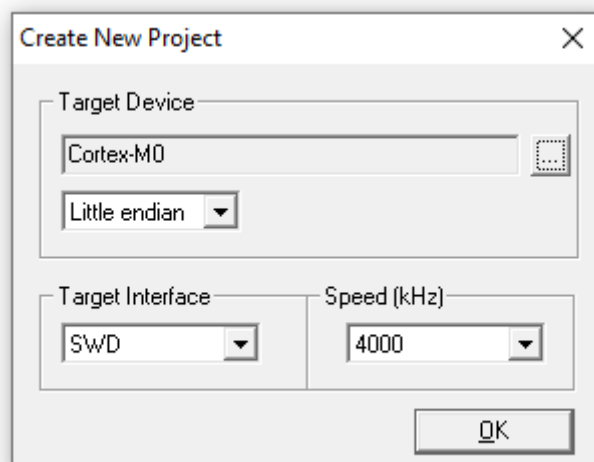
3. Open this folder, select and run the "J-Flash V6.48a" file.



4. The program will open



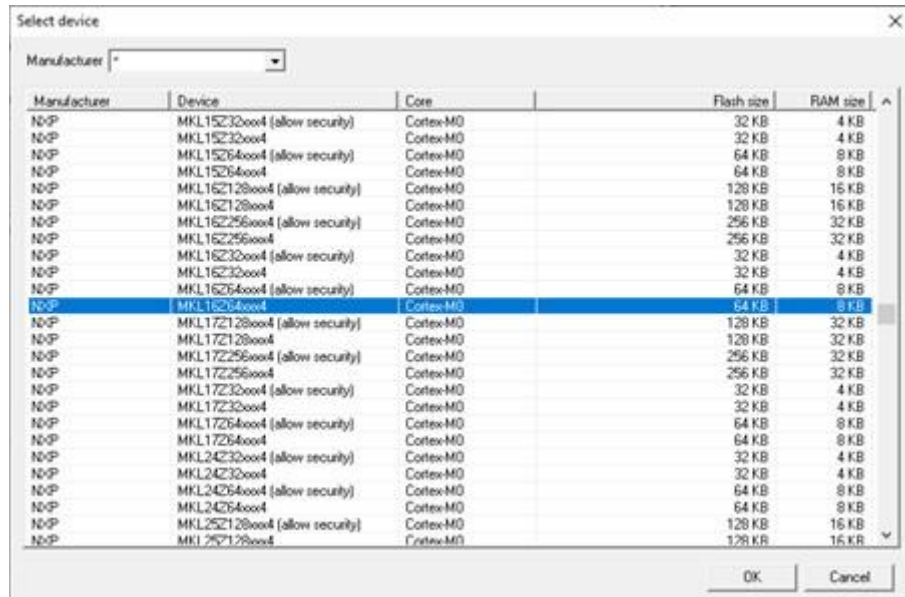
Choose "Create a new project". And press the Start J-Flash button. A window will appear:



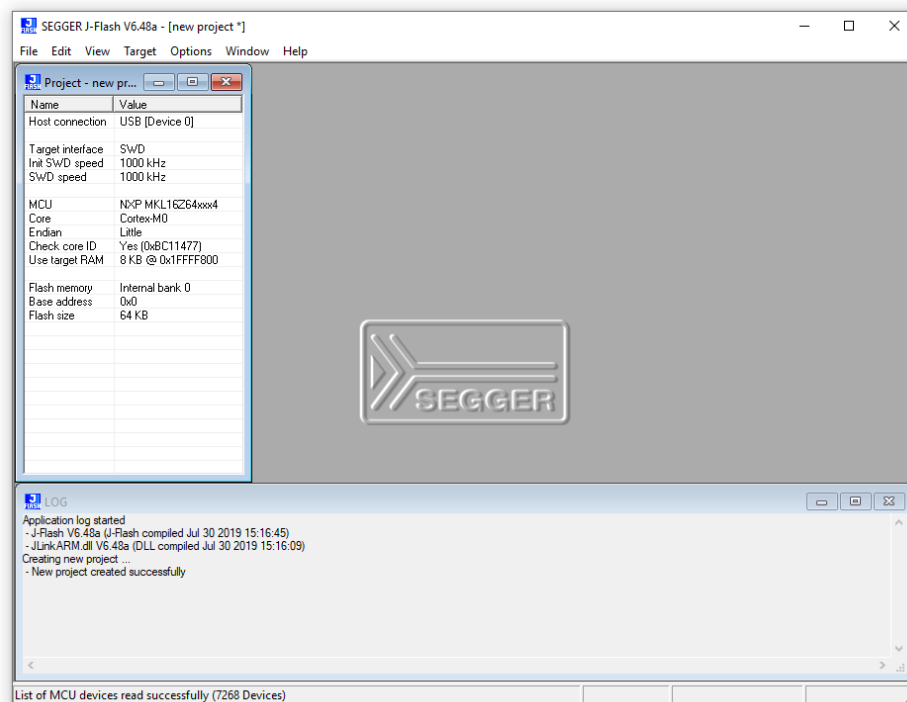
Set the Speed to 1000 kHz /

Select the processor type by clicking on the selection button (three dots).

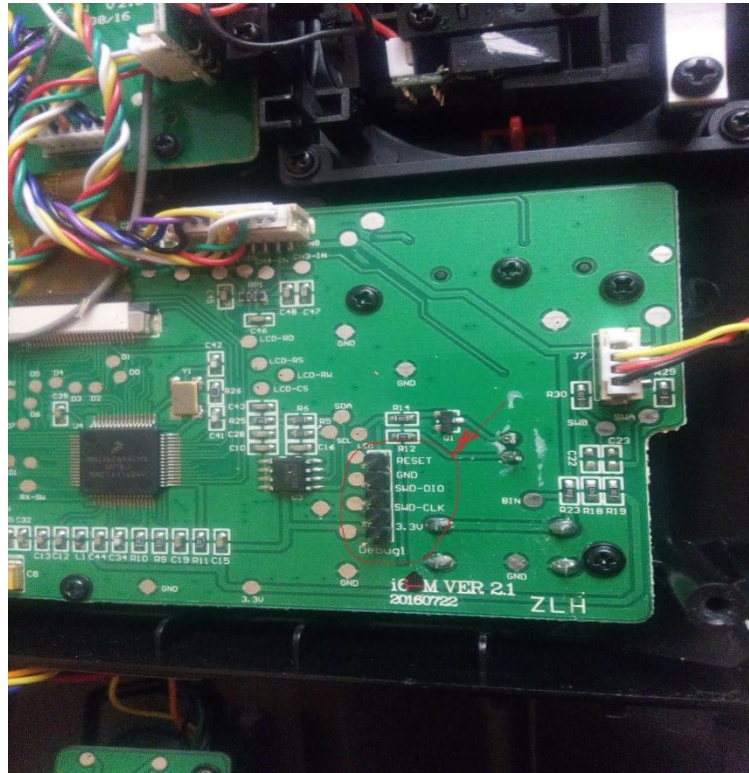
From the drop-down list, select: NXP MKL16Z64xxx4 and click OK.



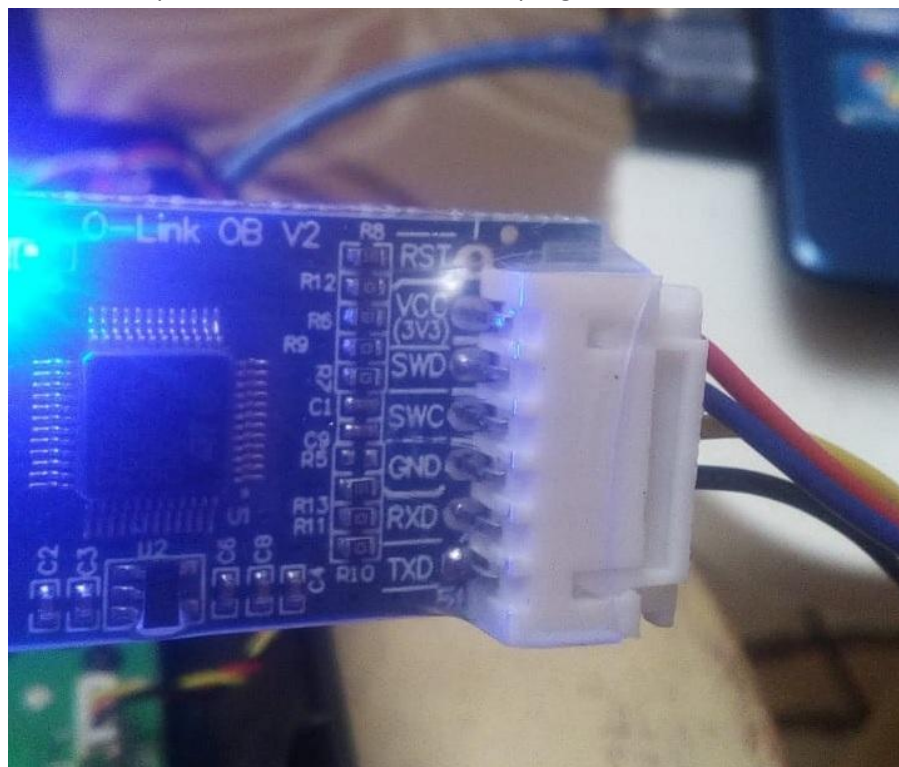
Here's what you should end up with:

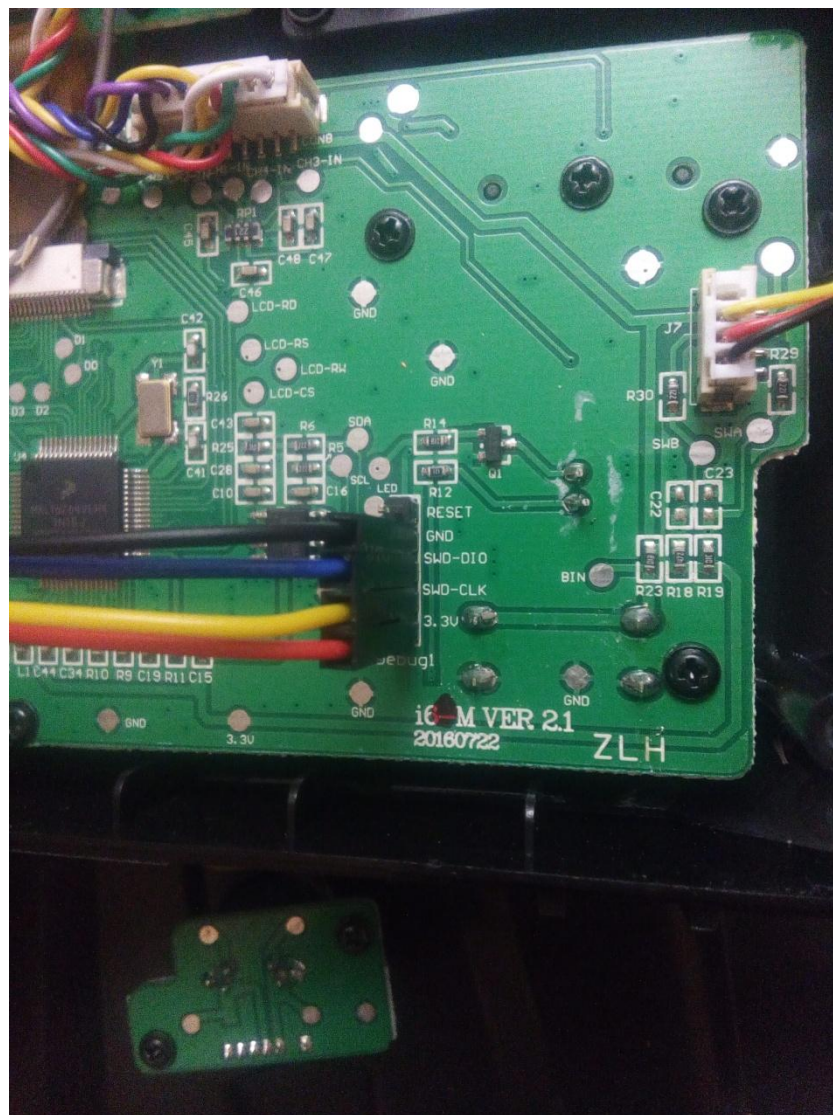


5. Now we connect the programmer to the USB-input of the computer and to the remote control (the remote control must be opened to gain access to the pins for the firmware)

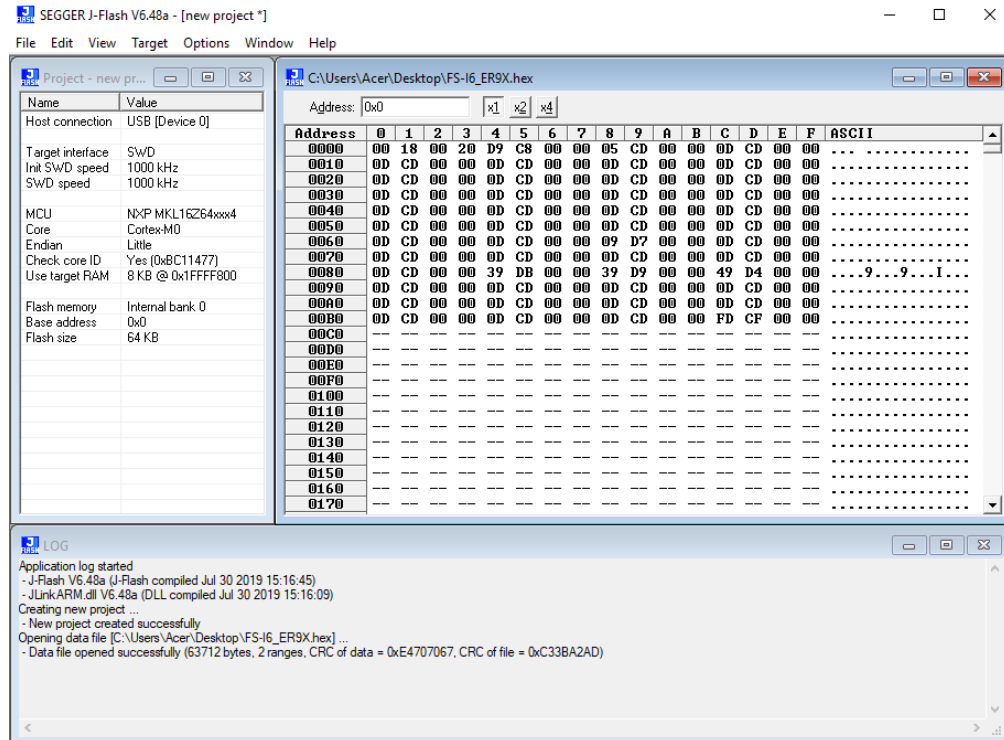


We connect the pins of the same name on the programmer and in the TX





6. Next, select the firmware file. Click File-> Open data file and open the downloaded firmware file - FS-I6_ER9X.hex. It should look like this:



We save this project under a clear name for future use

File-> Save project as ...

7. Now select Target-> Connect in the main program window.
Then choose Target-> Production Programming or press the F7 key.
Everything, the firmware process should go. At the end of the process, we restore the power supply of the remote control (restart),



press any button, the format will happen.

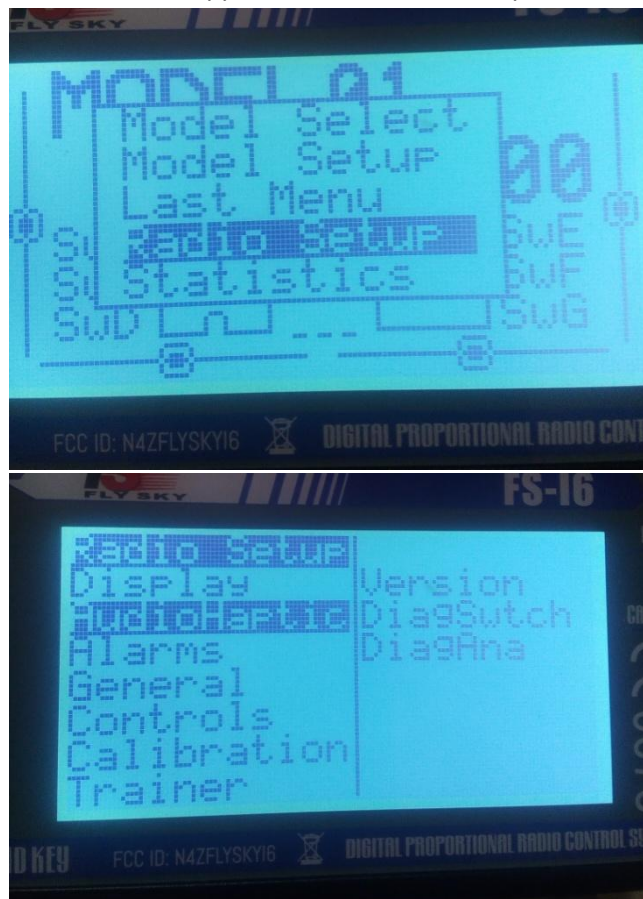


We are happy and proceed to the settings.

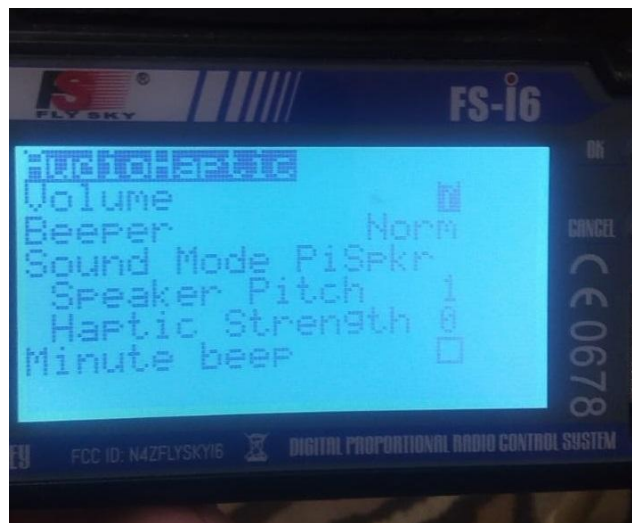
P.S. After the firmware is installed, the remote control will give a sound signal - do not be alarmed. This is a remote control power alarm. You need to adjust settings.

The first settings of the remote control after flashing:

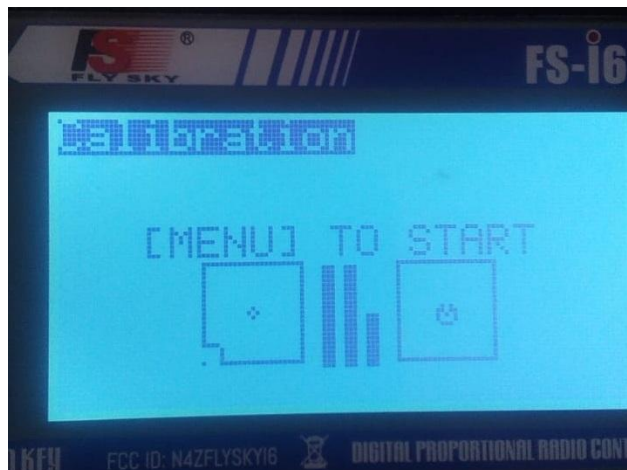
1. Press OK for a long time on the remote control.
A menu should appear. Choose Radio Setup-> AudioHaptic.



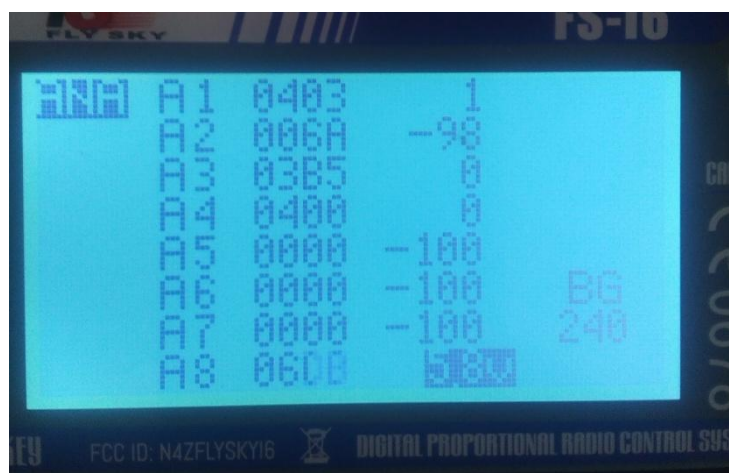
Change SoundMode to PiSpkr.



2. We calibrate the sticks, knobs and SwC.

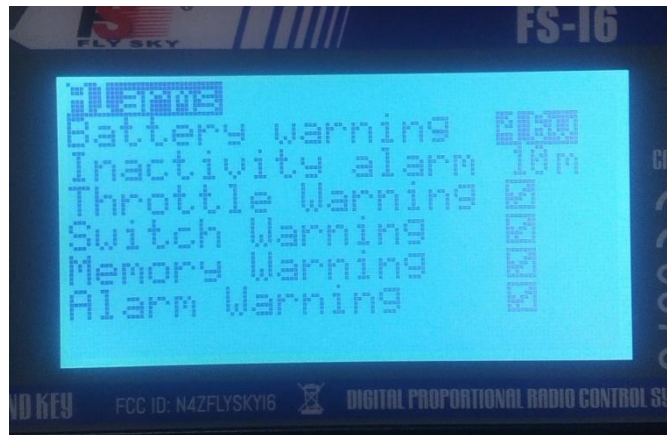


3. We calibrate the battery. We measure the current voltage of the battery with a multimeter. Go to Radio Setup-> DiagAn



We set the current battery voltage and click Cancel.

Now select Radio Setup-> Alarms. B we set the lower limit of the battery voltage.



Well, then read the description of the firmware ...

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