

Steelsring NK/GFX Firmware Update Procedure on Mac

For Mac OS 10.7.5+ users only:

*You have to **disable** Gatekeeper before start firmware updater, and remember to **enable** it again when it's done.*

Please enter the following command in Terminal App:

To disable it:

```
sudo spctl --master-disable
```

To enable it:

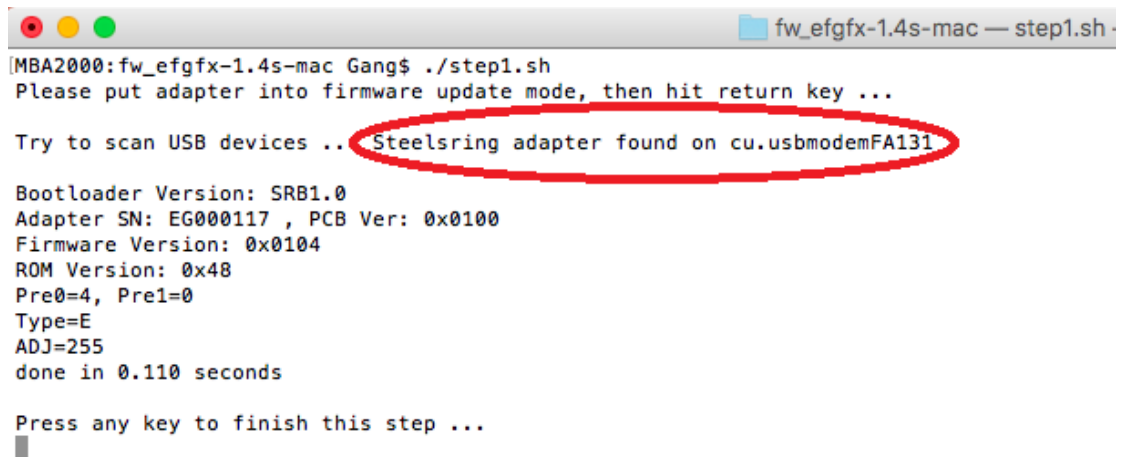
```
sudo spctl --master-enable
```

Please refer to <http://osxdaily.com/2015/05/04/disable-gatekeeper-command-line-mac-osx/> for more details

- 1) Preparation: Mac with version 10.5+, USB Micro cable, Empty
Steelsring NK/GFX adapter without lens mounted
- 2) Download firmware from following URL or find it in www.steelsring.com
http://www.steelsring.com/firmware/fw_nkgfx-version-number-mac.zip

NOTE: **version-number** to be replaced with real version number of
different firmware releases, like 1.03
- 3) Unpack fw_nkgfx-**version-number**-mac.zip into local folder.
- 4) Launch Terminal App
- 5) Put one end of USB Micro cable into NK/GFX adapter's USB socket, plug
another end of USB Micro cable into Mac.
- 6) In Terminal App, either **change current directory to where firmware was
unzipped**, then type **./step1.sh**, or drag **step1.sh** into the window of
Terminal app in Finder with mouse, then hit return key. (**Step 6**) is
optional , used for USB cable check and adapter information check)

- a) If Adapter entered bootloader mode, and connected with Mac successfully, it will show following screen. If you can see it, you can press any keys to quit, and go to Step 7) to start firmware flash.



```
MBA2000:fw_efgfx-1.4s-mac Gang$ ./step1.sh
Please put adapter into firmware update mode, then hit return key ...

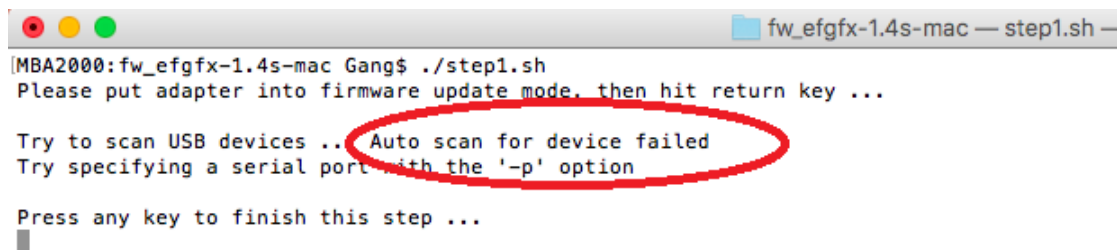
Try to scan USB devices .. Steelsring adapter found on cu.usbmodemFA131

Bootloader Version: SRB1.0
Adapter SN: EG000117 , PCB Ver: 0x0100
Firmware Version: 0x0104
ROM Version: 0x48
Pre0=4, Pre1=0
Type=E
ADJ=255
done in 0.110 seconds

Press any key to finish this step ...
```

The terminal window shows the execution of `./step1.sh`. It prompts the user to put the adapter into firmware update mode. After scanning USB devices, it successfully finds the 'Steelsring adapter' on `cu.usbmodemFA131`. It then displays various version and configuration details, including Bootloader Version (SRB1.0), Adapter SN (EG000117), PCB Ver (0x0100), Firmware Version (0x0104), ROM Version (0x48), Pre0 (4), Pre1 (0), Type (E), and ADJ (255). The process is completed in 0.110 seconds. The prompt 'Press any key to finish this step ...' is shown at the bottom.

- b) If it shows following information or others, please repeat step 5) and 6) or try with another USB cable.



```
MBA2000:fw_efgfx-1.4s-mac Gang$ ./step1.sh
Please put adapter into firmware update mode, then hit return key ...

Try to scan USB devices .. Auto scan for device failed
Try specifying a serial port with the '-p' option

Press any key to finish this step ...
```

The terminal window shows the execution of `./step1.sh`. It prompts the user to put the adapter into firmware update mode. After scanning USB devices, it fails with the message 'Auto scan for device failed' and suggests 'Try specifying a serial port with the '-p' option'. The prompt 'Press any key to finish this step ...' is shown at the bottom.

- 7) In Terminal App, type `./step2-version-number.sh` or drag `./step2-version-number.sh` into the window of Terminal app in Finder with mouse, then hit return key
- a) If Firmware flashing starts, it will display the following dynamic information.

