

C645/GFX Firmware Update Procedure on Mac computers

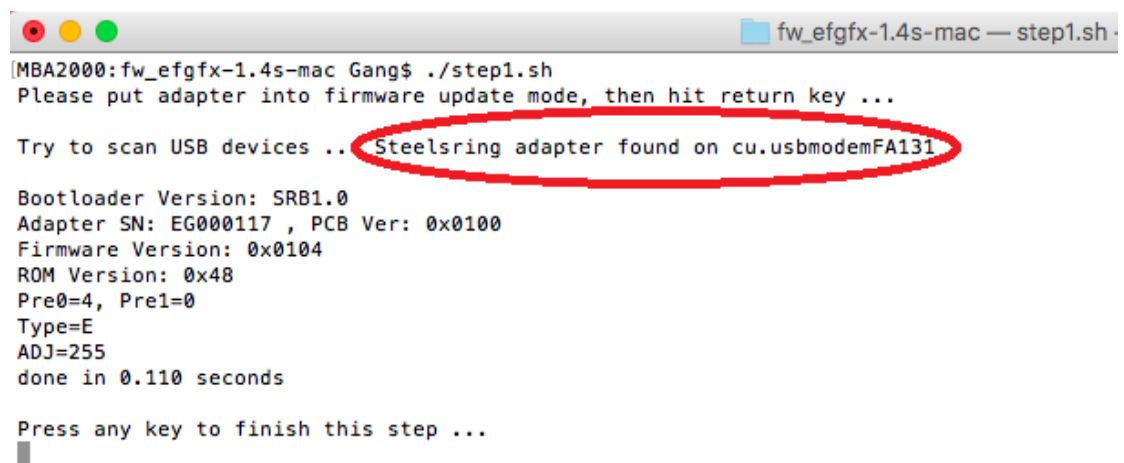
- 1) Preparation: Macs with version 10.5+, USB Micro cable, Empty Steelsring C645/GFX adapter without lens mounted

- 2) Download firmware from http://www.steelsring.com/firmware/fw_c645gfx-version-number-mac.zip

NOTE: **version-number** to be replaced with real version number of different firmware releases.

- 3) Unpack fw_efgfx-**version-number**-mac.zip into local folder
- 4) Put one end of USB Micro cable into C645/GFX adapter's USB socket. Press done the Multifunctional Button and keep it pressed, plug another end of USB Micro cable into Mac, wait 5-10 seconds, release the Multifunctional Button.
- 5) In Terminal App, change current directory to where firmware was unzipped, then type **./step1.sh** and hit return

- 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 6) to start firmware flash.



```
fw_efgfx-1.4s-mac — step1.sh
[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 ...
```

- b) If it shows following information or others, please repeat step 4) and 5).

```
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 ...
```

- 6) In Terminal App, type `./step2-version-number.sh` and hit return.

- a) If Firmware flashing starts, it will display the following dynamic information.

[illegible]

- b) If you cannot see above screen, it means your downloaded firmware is damaged or USB connection is not OK, please repeat steps 4) - 6) for several times or change to other USB Micro cable.

- 7) If firmware updated OK, it will show “Firmware update OK” message on the screen, please wait 30 seconds before removing the USB cable. If firmware

update hang or abort in the middle of firmware update, you can repeat step 4) –
6) later. However, adapter will not function as normal unless you have a
successful firmware update. Any problems, please report to
support@steelsring.com.