

Updating the Firmware of EETI (eGalax) button deck touchscreen

Procedure

TEC-EL-04201
Version 1.0.1

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Version History

Version	Department	Initials	Date	Comments
1.0.0	Electronic R&D	D.B.	2021-03-03	- First draft
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Updating the Firmware of EETI (eGalax) button deck touchscreen

Audience: Technical

1. Topic

This document has been written to provide the procedure to update the firmware of a EETI (eGalax) button deck touchscreen controller.

2. Requirement

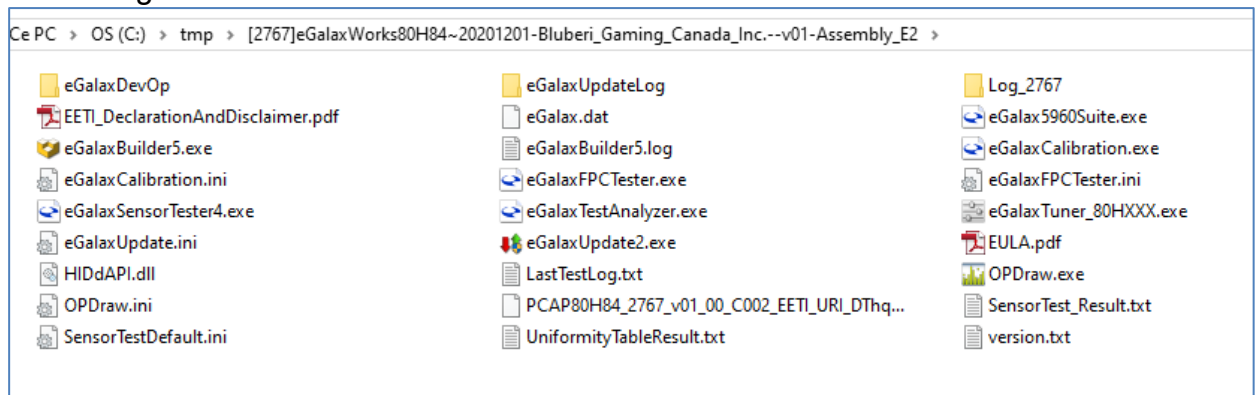
Here is what you will need:

- 1) A computer/laptop running Windows with a USB port.
- 2) Important: you need to have the admin permissions.
- 3) A USB A-to-B cable or a USB type A-to-A extension.
- 4) A compressed file containing all the necessary file for the update. Generally, this file will have a name like this: [\[2767\]eGalaxWorks80H84~20201201-Bluberi_Gaming_Canada_Inc.--v01-Assembly_E2.zip](#)

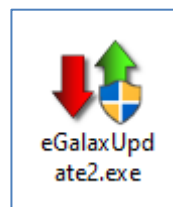
3. Procedure

Here is the complete procedure for the update:

- 1) Uncompress the firmware file into a dedicated working directory. You should get something like this:

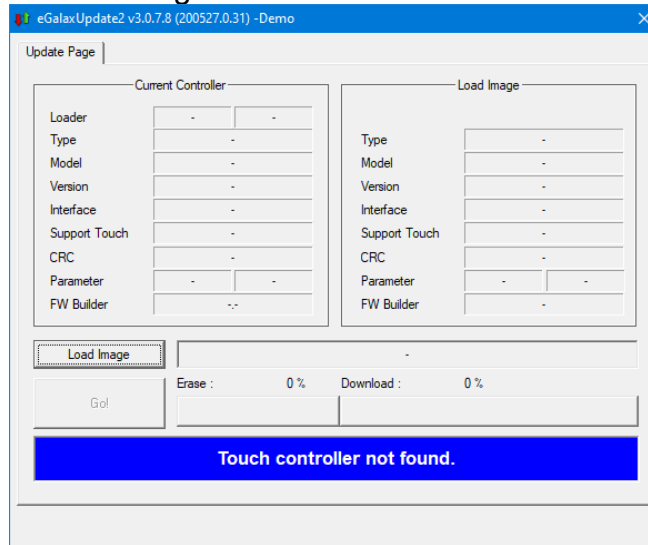


- 2) From the uncompressed directory, find and launch the file “eGalaxUpdate2.exe”.

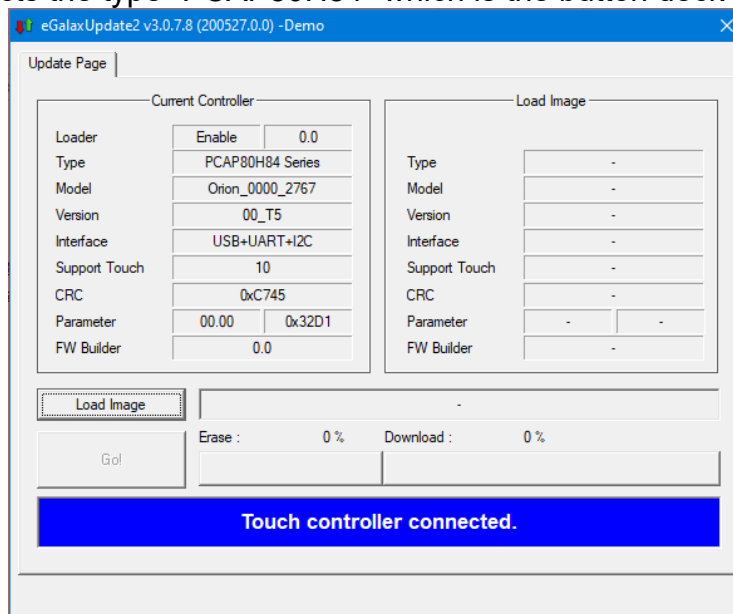




- 3) Window might prompt you to accept to launch this application requiring the admin privileges. If so, please accept.
- 4) Then you should see something like this:

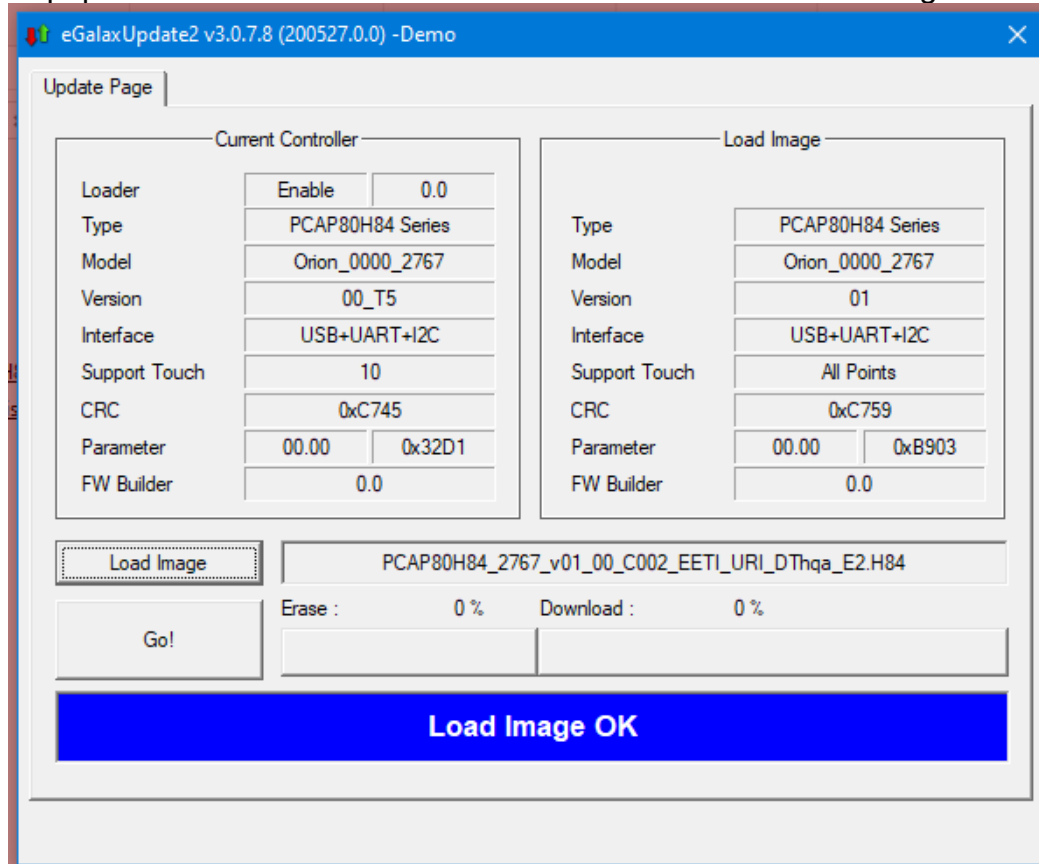


- 5) Link the USB touchscreen port of the controller to the computer you are using. You may use a A-to-B cable where you will plug the cable directly to the touchscreen controller on back of the monitor where you would have temporary disconnect the USB cable already plugged there. Or you may disconnect the USB cable from the game board inside the machine and plug it to an USB extension to link it to your computer. But if the machine is working with a serial interface, plug your cable directly on the unused USB port of the controller on back of the monitor. **Make sure to connect the button deck touchscreen controller!!!**
- 6) When you plug it, you should see the information of it on left side like the following image. It detects the type "PCAP80H84" which is the button deck one.

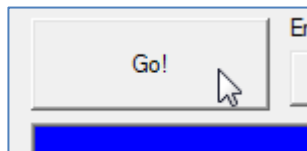




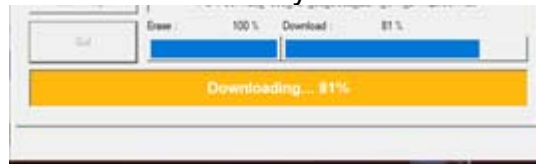
- 7) Then, click on the button “Load Image”. This will show up a file requester. Browse to the directory location you’ve just uncompressed the files and select the file with extension “.H84”. In our example, it will be file “PCAP80H84_2767_v01_00_C002_EETI_URI_DThqa_E2.H84”
- 8) When you plug the cable to the PC, you should then see the left portion of the window populated information read from the controller like the following:



- 9) In the above example, we see that our “Current Controller” displayed on left has currently the version “00_T5” and that we are about to update it with our file with version “01”.
- 10) You may now click the “Go!” button to launch the firmware update:

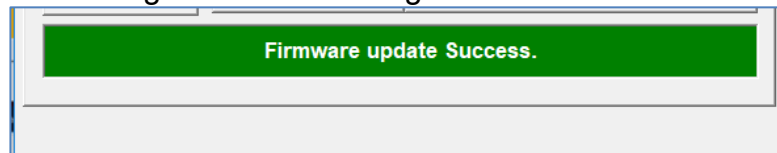


- 11) During the update process that will take less than 15 seconds, there is a bar graph at the button that will reach 100% eventually:



- 12) During all this update, make sure no one is touching the screen!!!

- 13) At the end of the update, the bottom of the application should display a "Firmware update Success" message like the following:



- 14) Also, you should then see the same information in both left and right panel of the application. In our example, we see both with version 01 and the same values for the "parameter" fields:

Current Controller			Load Image		
Loader	Enable	0.0	Type	PCAP80H84 Series	
Type	PCAP80H84 Series		Model	Orion_0000_2767	
Model	Orion_0000_2767		Version	01	
Version	01		Interface	USB+UART+I2C	
Interface	USB+UART+I2C		Support Touch	All Points	
Support Touch	10		CRC	0xC759	
CRC	0xC759		Parameter	00.00	0xB903
Parameter	00.00	0xB903	FW Builder	0.0	
FW Builder	0.0				

- 15) Disconnect the USB cable. Do not let the cable plug for a long time after the update. We have seen something the touchscreen go back to a kind of bootloader mode when this happen and so the controller is not programmed correctly at the end... So, disconnect table when operation is completed.



4. Conclusion

This concludes the update procedure.






Contact Us




If you have any question, comment or feedback, please use the contact details provided below.

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