

APPENDIX A USB FIRMWARE FILES

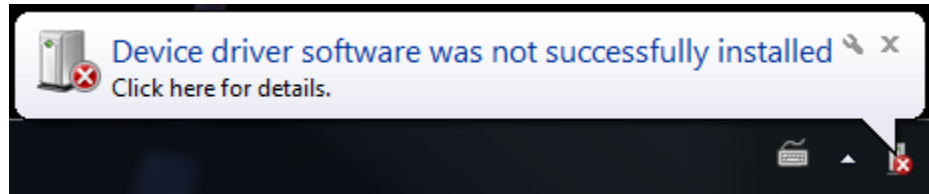
The table below shows which set of firmware files must be used to program this EVM.

USB Firmware

Firmware Image to be Programmed
<input checked="" type="checkbox"/> USB-AudioEVMxxxx_48KHZ.BIN

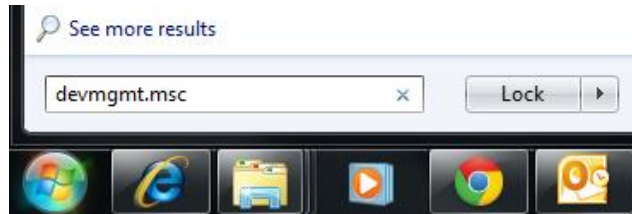
APPENDIX B DFU DRIVER INSTALLATION

When a TAS1020B-based EVM is connected to a USB port in Device Firmware Upgrade (DFU) mode for the first time, the message below may appear.

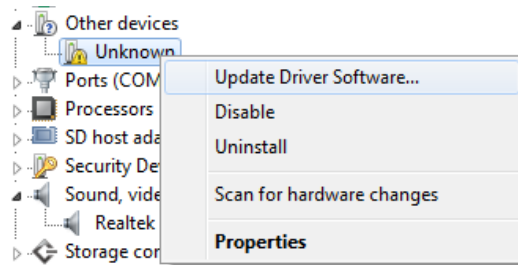


Follow these steps to install the DFUUSB driver:

- 1.1 Run devmgmt.msc from the Windows Start Menu to open the Device Manager, as shown to the right.

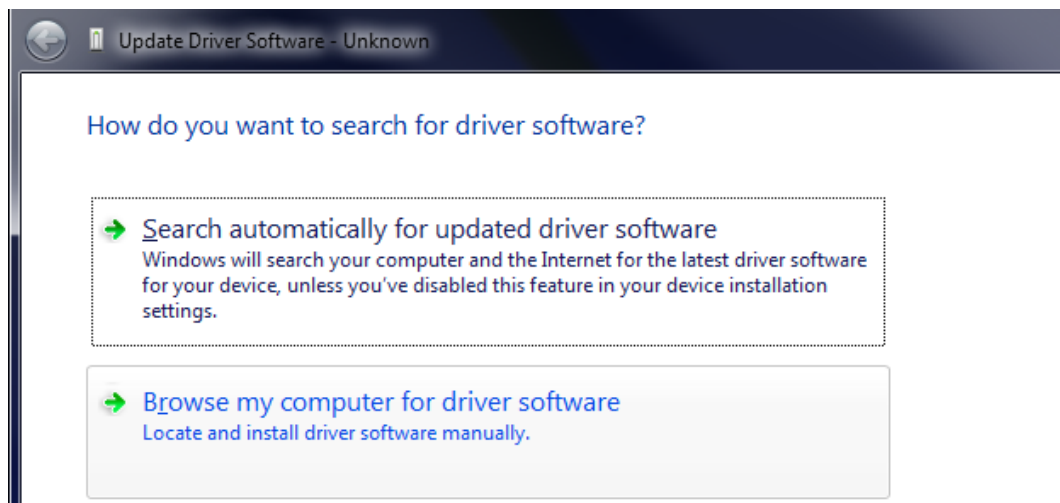


- 1.2 Click *Update Driver Software* the new *Unknown* device.

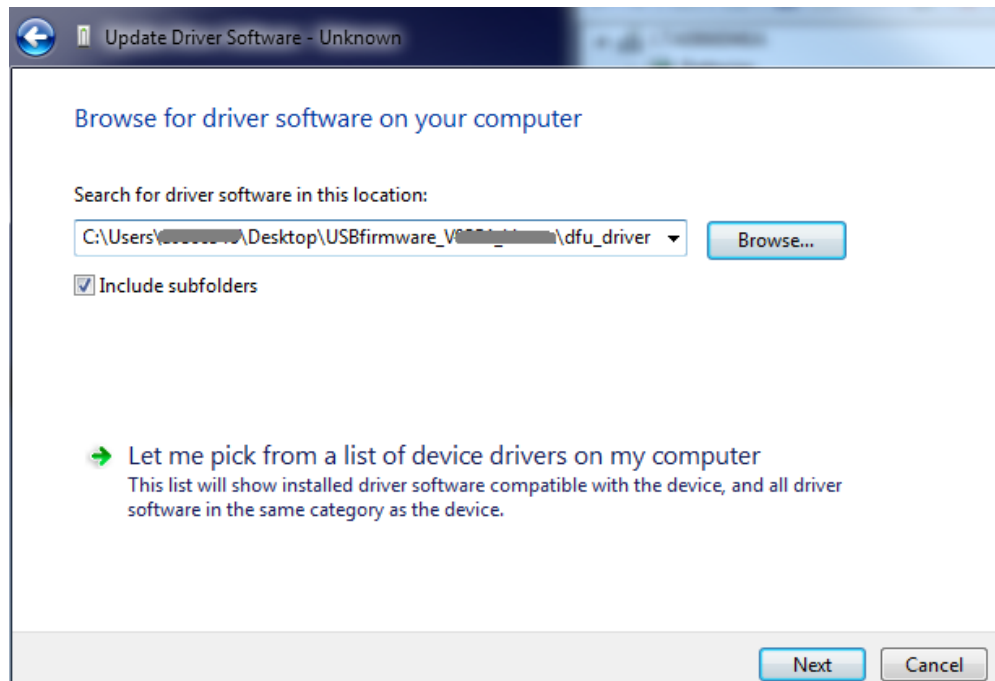


for

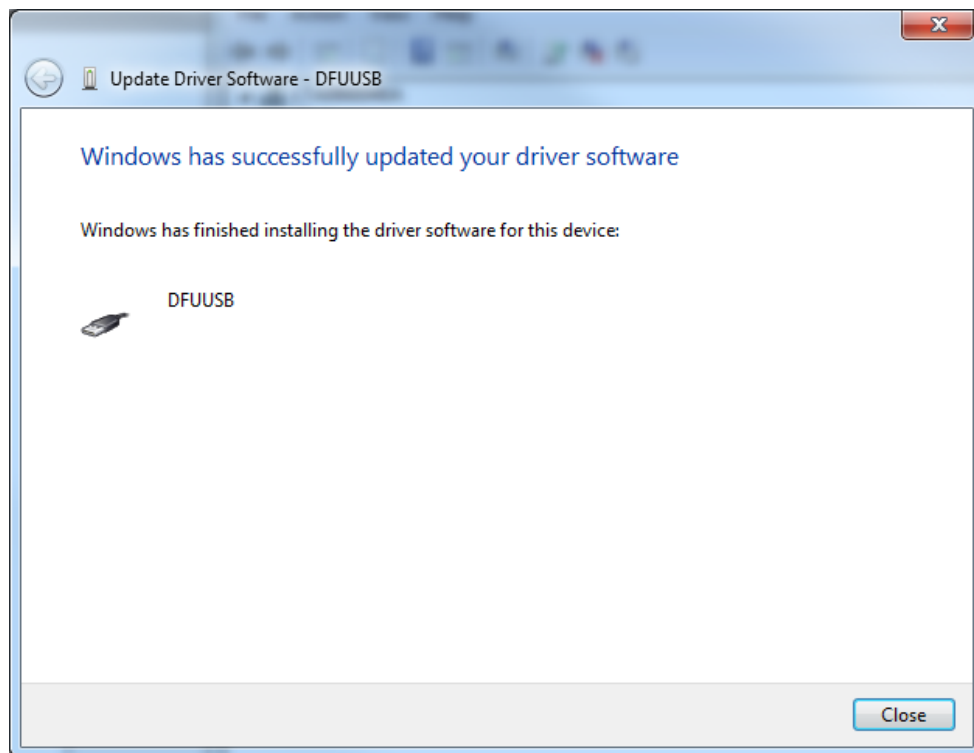
- 1.3 Click Browse my computer for driver software, as shown below.



1.4 Browse for `USBfirmware_Vxxxxx\dfu_driver`, as shown below. Click Next.



1.5 If successful, the message below should appear.

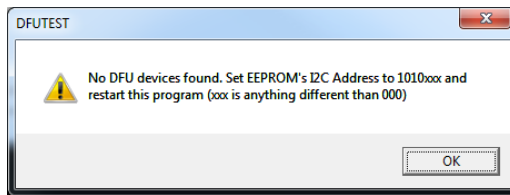


1.6 The DFU driver installation is now complete.

APPENDIX C EASY FIRMWARE UPDATE PROCEDURE

Follow this procedure for a new EVM with a blank EEPROM. If the EEPROM has already been previously programmed, follow [APPENDIX D](#) instead.

- 1.1 Connect a USB cable from the PC to the EVM. If prompted to install a DFU driver, follow [APPENDIX B](#).
- 1.2 Browse to `\\USBfirmware_Vxxxxx`.
- 1.3 Double click “DFUTEST.exe”.
- 1.4 If the following message is shown:



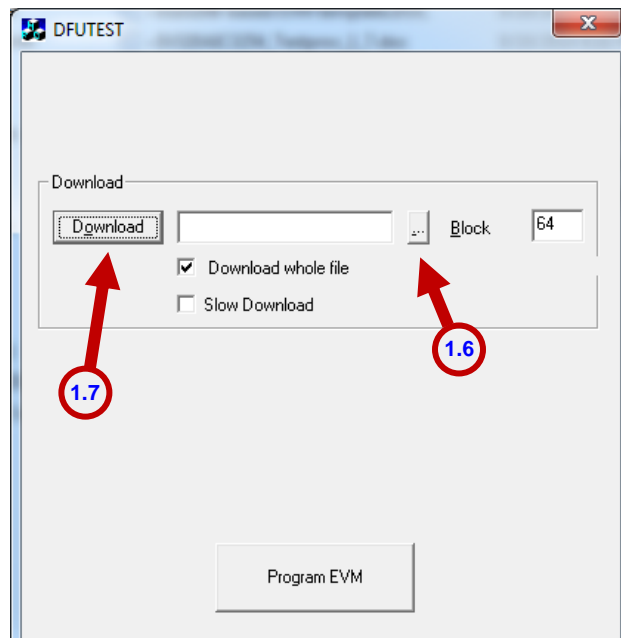
Close DFUTEST.exe,

Ensure that the DFU driver is installed correctly per [APPENDIX B](#),

Ensure jumpers are set to their default positions,

Go to Step [1.1](#) above.

- 1.5 A window similar to the one shown to the right should appear.
- 1.6 Click the “...” button as shown to the right and browse to the `\\USBfirmware_Vxxxxx\\image` folder. Use the checked ☒ image specified in [APPENDIX A](#). Once selected, click Open.
- 1.7 Click the *Download* button, as shown to the right.

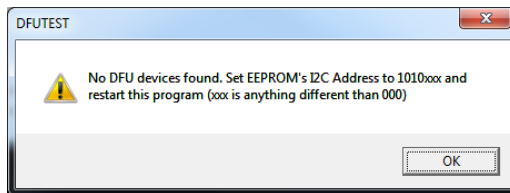


- 1.8 A *Download Completed* message should appear. Click *OK*.
- 1.9 Disconnect the USB cable.
- 1.10 Close the DFUTEST.exe program.

APPENDIX D ALTERNATE FIRMWARE UPDATE PROCEDURE

Follow this procedure if the EVM EEPROM has been previously written. This procedure will also work with blank EEPROMs as well, but requires more steps.

- 1.1 Short SCL and SDA pins of the EEPROM that is connected to the TAS1020B.
- 1.2 Connect a USB cable from the PC to the EVM. If prompted to install a DFU driver, follow [APPENDIX B](#).
- 1.3 After 5 seconds, remove the short between SCL and SDA pins of the EEPROM that is connected to the TAS1020B.
- 1.4 Browse to `\\USBfirmware_Vxxxxx`.
- 1.5 Double click "DFUTEST.exe".
- 1.6 If the following message is shown:



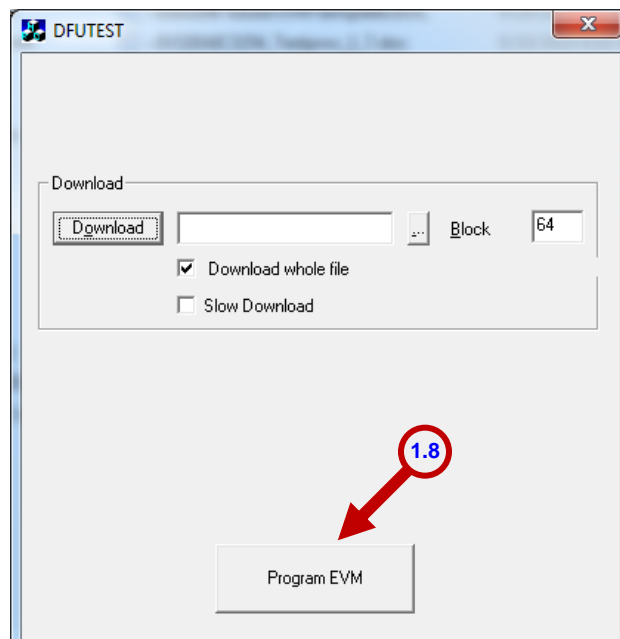
Close DFUTEST.exe,

Ensure that the DFU driver is installed correctly per [APPENDIX B](#),

Ensure jumpers are set to their default positions,

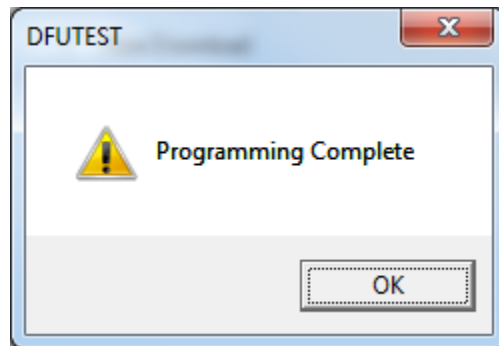
Go to Step [1.1](#) above.

- 1.7 A window similar to the one shown to the right should appear.
- 1.8 Click the *Program EVM* button as shown to the right.



- 1.9 Browse to the `\\USBfirmware_Vxxxxx\\image` folder.

- 1.10 Select *DFUEE.bin*. Once selected, click Open.
- 1.11 A *Download Completed* message should appear. Click *OK*.
- 1.12 A *Device was successfully reset* message should appear. **Wait about 3 seconds until Windows recognizes the device, failure to do so will show an error message.** If an error message appears, close DFUTEST.exe and restart the programming procedure. Click *OK*.
- 1.13 A *Device Detach call succeeded* message should appear. **Wait about 3 seconds until Windows recognizes the device, failure to do so will show an error message.** If an error message appears, close DFUTEST.exe and restart the programming procedure. Click *OK*.
- 1.14 If prompted to install a DFU driver, follow [APPENDIX B](#).
- 1.15 Browse to the *USBfirmware_Vxxxxx\image* folder. Use the checked ☒ image specified in [APPENDIX A](#). Once selected, click Open.
- 1.16 Click OK two times. The third window should look like this:



- 1.17 Close the DFUTEST.exe program.