

WES 237A ADB Guide

1. Overview

The Mobile Development Platform (MDP) doesn't have a seamless driver detection/installation process, and so requires specific driver settings to be set before it can be detected by your machine.

2. Android Development Toolkit:

Follow the instructions here to set up and install the Android Development Toolkit, which includes the Android Developers Tools (ADT) software:

<http://developer.android.com/sdk/index.html>

This page should take you to the appropriate installer for your platform.

3. Driver Files

Download the Google USB Driver using the instructions here:

<http://developer.android.com/sdk/win-usb.html>

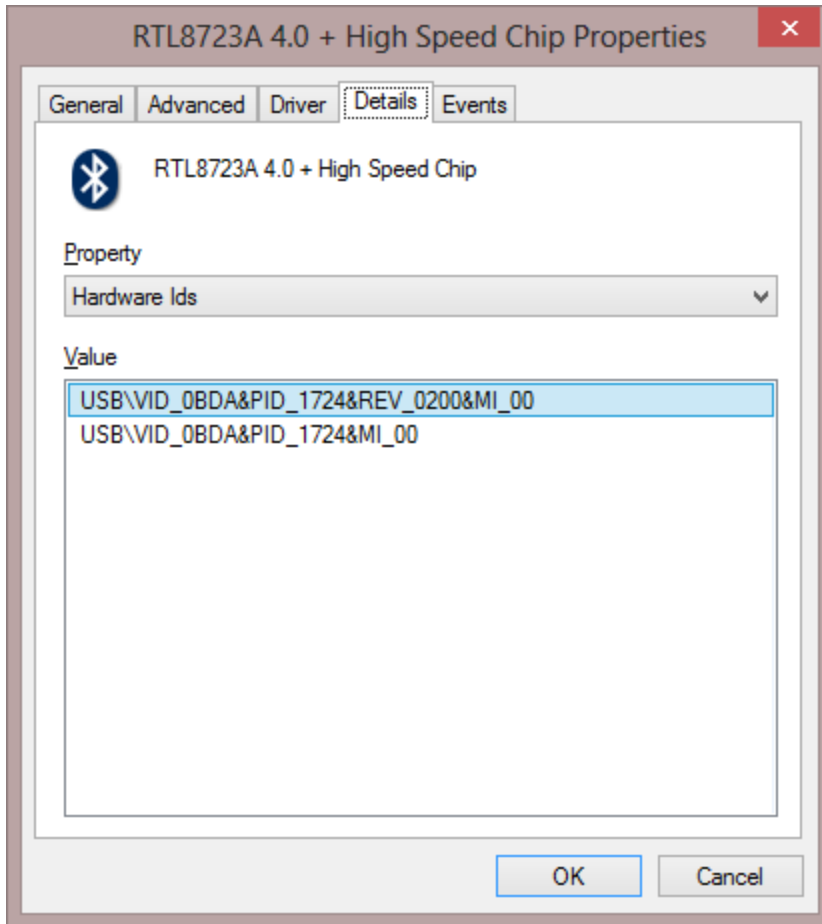
The driver should now be located in ...\`<sdk>\extras\google\usb_driver`

4. Hardware IDs

Note down the phone's Hardware ID

A. Windows

1. Connect your phone to your machine
2. Go to the Device Manager. Your phone should show up as an Unknown Device, or as BSQUARE, MSM8660, etc.
3. Right-click the device, and go to Properties.
4. Find the "Details" tab (see picture on next page)



5. Copy down the number after "PID". It should be a 4-digit number.

B. Linux/Mac

Run the "lsusb" command. This will give you the product ID

5. Android USB file

A. Windows

1. Go to the C:\<user name>\.android location.
2. Open the ADB configuration file: adb_usb.ini (Create it if it doesn't exist)

B. Linux/Mac

3. Go to the .android location
`cd ~/.android`
(Create it if it doesn't exist)
4. Open the ADB configuration file: adb_usb.ini (Create it if it doesn't exist)

6. Add Hardware IDs

- 1a. If you created the ADB file in Step 5, you need to add all of the following:

```
# ANDROID 3RD PARTY USB VENDOR ID LIST -- DO NOT EDIT.
# USE 'android update adb' TO GENERATE.
# 1 USB VENDOR ID PER LINE.
0x0956
0x9039
```

- 1b. If the ADB file already existed, just go to the very end

2. Append the Hardware ID from Step 4 to the end of the file, preceded by 0x

7. (Windows only) Update Manifest and Reinstall Drivers

1. Open the Android USB Driver location (typically in C:\Program Files (x86)\Android\android-sdk\extras\google\usb_driver)
2. Add lines corresponding to your phone's Hardware ID (the whole line, not just the 4-digit number) from step 5 – example below:

```
;Qualcomm MSM8960
%SingleBootLoaderInterface% = USB_Install, USB\VID_05C6&PID_9039
%SingleAdbInterface%        = USB_Install, USB\VID_05C6&PID_9039
%CompositeAdbInterface%     = USB_Install, USB\VID_05C6&PID_9039&REV_0228&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_05C6&PID_9039&MI_01

;Qualcomm MSM8660
%SingleBootLoaderInterface% = USB_Install, USB\VID_05C6&PID_9026
%SingleAdbInterface%        = USB_Install, USB\VID_05C6&PID_9026
%CompositeAdbInterface%     = USB_Install, USB\VID_05C6&PID_9026&REV_0227&MI_00
%CompositeAdbInterface%     = USB_Install, USB\VID_05C6&PID_9026&MI_00
%CompositeAdbInterface%     = USB_Install, USB\VID_05C6&PID_9026&REV_0000&MI_00

;Qualcomm MSM8660
%SingleBootLoaderInterface% = USB_Install, USB\VID_0956&PID_9039
%SingleAdbInterface%        = USB_Install, USB\VID_0956&PID_9039
%CompositeAdbInterface%     = USB_Install, USB\VID_0956&PID_9039&REV_0231&MI_01
%CompositeAdbInterface%     = USB_Install, USB\VID_0956&PID_9039&MI_01
```

3. Go to the Device Manager, find the unknown device, and update the drivers. Make sure to point the drivers to the Android USB Driver location