

OEM USB Drivers

If you are developing on Windows and would like to connect an Android-powered device to test your applications, then you need to install the appropriate USB driver. This document provides links to the web sites for several original equipment manufacturers (OEMs), where you can download the appropriate USB driver for your device. However, this list is not exhaustive for all available Android-powered devices.

If you're developing on Mac OS X or Linux, then you probably don't need to install a USB driver. To start developing with your device, read [Using Hardware Devices \(/tools/device.html\)](#).

Note: If your device is one of the Android Developer Phones (ADP), a Nexus One, or a Nexus S, then you need the [Google USB Driver \(/sdk/win-usb.html\)](#), instead of an OEM driver. The Galaxy Nexus driver, however, is distributed by [Samsung](http://www.samsung.com/us/support/downloads/verizon-wireless/SCH-I515MSAVZW) (<http://www.samsung.com/us/support/downloads/verizon-wireless/SCH-I515MSAVZW>) (listed as model SCH-I515).

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Installing a USB Driver

First, find the appropriate driver for your device from the [OEM drivers \(#Drivers\)](#) table below.

Once you've downloaded your USB driver, follow the instructions below to install or upgrade the driver, based on your version of Windows and whether you're installing for the first time or upgrading an existing driver.

Tip: When you finish the USB driver installation, see [Using Hardware Devices \(/tools/device.html\)](#) for other important information about using an Android-powered device for development.

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Caution: You may make changes to `android_winusb.inf` file found inside `usb_driver\` (for example, to add support for other devices), however, this will lead to security warnings when you install or upgrade the driver. Making any other changes to the driver files may break the installation process.

Windows 7

To install the Android USB driver on Windows 7 for the first time:

1. Connect your Android-powered device to your computer's USB port.
2. Right-click on *Computer* from your desktop or Windows Explorer, and select **Manage**.
3. Select **Devices** in the left pane.
4. Locate and expand *Other device* in the right pane.
5. Right-click the device name (such as *Nexus S*) and select **Update Driver Software**. This will launch the Hardware Update Wizard.
6. Select **Browse my computer for driver software** and click **Next**.
7. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in `<sdk>\extras\google\usb_driver\`.)
8. Click **Next** to install the driver.

Or, to *upgrade* an existing Android USB driver on Windows 7 with the new driver:

1. Connect your Android-powered device to your computer's USB port.
2. Right-click on *Computer* from your desktop or Windows Explorer, and select **Manage**.
3. Select **Device Manager** in the left pane of the Computer Management window.
4. Locate and expand *Android Phone* in the right pane.
5. Right-click *Android Composite ADB Interface* and select **Update Driver**. This will launch the Hardware Update Wizard.

Wizard.

6. Select **Install from a list or specific location** and click **Next**.
7. Select **Search for the best driver in these locations**; un-check **Search removable media**; and check **Include this location in the search**.
8. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in <sdk>\extras\google\usb_driver\.)
9. Click **Next** to upgrade the driver.

Windows XP

To install the Android USB driver on Windows XP for the first time:

1. Connect your Android-powered device to your computer's USB port. Windows will detect the device and launch the Hardware Update Wizard.
2. Select **Install from a list or specific location** and click **Next**.
3. Select **Search for the best driver in these locations**; un-check **Search removable media**; and check **Include this location in the search**.
4. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in <sdk>\extras\google\usb_driver\.)
5. Click **Next** to install the driver.

Or, to *upgrade* an existing Android USB driver on Windows XP with the new driver:

1. Connect your Android-powered device to your computer's USB port.
2. Right-click on *My Computer* from your desktop or Windows Explorer, and select **Manage**.
3. Select **Device Manager** in the left pane.
4. Locate and expand *Android Phone* in the right pane.
5. Right-click *Android Composite ADB Interface* and select **Update Driver**. This will launch the Hardware Update Wizard.
6. Select **Install from a list or specific location** and click **Next**.
7. Select **Search for the best driver in these locations**; un-check **Search removable media**; and check **Include this location in the search**.
8. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in <sdk>\extras\google\usb_driver\.)
9. Click **Next** to upgrade the driver.

Windows Vista

To install the Android USB driver on Windows Vista for the first time:

1. Connect your Android-powered device to your computer's USB port. Windows will detect the device and launch the Found New Hardware wizard.
2. Select **Locate and install driver software**.
3. Select **Don't search online**.
4. Select **I don't have the disk. Show me other options**.
5. Select **Browse my computer for driver software**.
6. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in <sdk>\extras\google\usb_driver\.) As long as you specified the exact location of the installation package, you may leave **Include subfolders** checked or unchecked—it doesn't matter.
7. Click **Next**. Vista may prompt you to confirm the privilege elevation required for driver installation. Confirm it.
8. When Vista asks if you'd like to install the Google ADB Interface device, click **Install** to install the driver.

Or, to *upgrade* an existing Android USB driver on Windows Vista with the new driver:

1. Connect your Android-powered device to your computer's USB port.
2. Right-click on *Computer* from your desktop or Windows Explorer, and select **Manage**.
3. Select **Device Manager** in the left pane.
4. Locate and expand *ADB Interface* in the right pane.
5. Right-click on *HTC Dream Composite ADB Interface*, and select **Update Driver Software**.
6. When Vista starts updating the driver, a prompt will ask how you want to search for the driver software.

Select **Browse my computer for driver software**.

7. Click **Browse** and locate the USB driver folder. (The Google USB Driver is located in <sdk>\extras\google\usb_driver\.) As long as you specified the exact location of the installation package, you may leave **Include subfolders** checked or unchecked—it doesn't matter.
8. Click **Next**. Vista might prompt you to confirm the privilege elevation required for driver installation. Confirm it.
9. When Vista asks if you'd like to install the Google ADB Interface device, click **Install** to upgrade the driver.

OEM Drivers

Note: If your device is one of the Android Developer Phones (purchased from the Google Play Developer Console), a Nexus One, or a Nexus S, then you need the [Google USB Driver \(/sdk/win-usb.html\)](#), instead of an OEM driver. The Galaxy Nexus driver, however, is distributed by [Samsung \(http://www.samsung.com/us/support/downloads/verizon-wireless/SCH-I515MSAVZW\)](#) (listed as model SCH-I515).

OEM	Driver URL
Acer	http://www.acer.com/worldwide/support/mobile.html
ALCATEL ONE TOUCH	http://www.alcatelonetouch.com/global-en/support/faq/usbdriver.html
Asus	http://support.asus.com/download/
Dell	http://support.dell.com/support/downloads/index.aspx?c=us&cs=19&l=en&s=dhs&~ck=anavml
Foxconn	http://drivers.cmcs.com.tw/
Fujitsu	http://www.fmworld.net/product/phone/sp/android/develop/
Garmin-Asus	https://www.garminasus.com/en_US/support/pcsync/
Hisense	http://app.hismarttv.com/dss/resourcecontent.do?method=viewResourceDetail&resourceId=16&type=5
HTC	http://www.htc.com Click on the support tab to select your products/device. Different regions will have different links.
Huawei	http://www.huaweidevice.com/worldwide/downloadCenter.do?method=index
Intel	http://www.intel.com/software/android
KT Tech	http://www.kttech.co.kr/cscenter/download05.asp for EV-S100 (Take)
Kyocera	http://www.kyocera-wireless.com/support/phone_drivers.htm
Lenovo	http://developer.lenovomm.com/developer/download.jsp
LGE	http://www.lg.com/us/mobile-phones/mobile-support/mobile-lg-mobile-phone-support.jsp
Motorola	http://developer.motorola.com/docstools/USB_Drivers/
MTK	http://online.mediatek.com/Public%20Documents/MTK_Android_USB_Driver.zip
Oppo	http://www.oppo.com/index.php?q=software/view&sw_id=631
Pantech	http://www.isky.co.kr/cs/software/software.sky?fromUrl=index
Pegatron	http://www.pegatroncorp.com/download/New_Duke_PC_Driver_0705.zip (ZIP download)
Samsung	http://www.samsung.com/us/support/downloads
Sharp	http://k-tai.sharp.co.jp/support/
SK Telesys	http://www.sk-w.com/service/wDownload/wDownload.jsp
Sony Mobile Communications	http://developer.sonymobile.com/downloads/drivers/
Teleepoch	http://www.teleepoch.com/android.html
Toshiba	http://support.toshiba.com/sscontent?docId=4001814
Yulong Coolpad	http://www.yulong.com/product/product/product/downloadList.html#downListUL
Xiaomi	http://www.xiaomi.com/c/driver/index.html
ZTE	http://support.zte.com.cn/support/news/NewsDetail.aspx?newsId=1000442