Updating Firmware

By default, PlutoSDR will ship with the latest firmware that was available at the time the device itself was tested, which can me your device may be several releases behind. The firmware itself contains the FPGA bitstream, Linux kernel, busybox userspace, and applications need to interface with the integrated transfer and outside world. If you are interested in creating custom firmware for PlutoSDR, ADI provide build instructions at the ADI Wiki and GitHub pages.

Here we will be updating PlutoSDR with prebuilt images which are available at the firmware release pages here: https://github.com/analogdevicesinc/plutosdr-fw/releases/latest . At this page, download the firmware zip file as outlined in red in Figure 1.

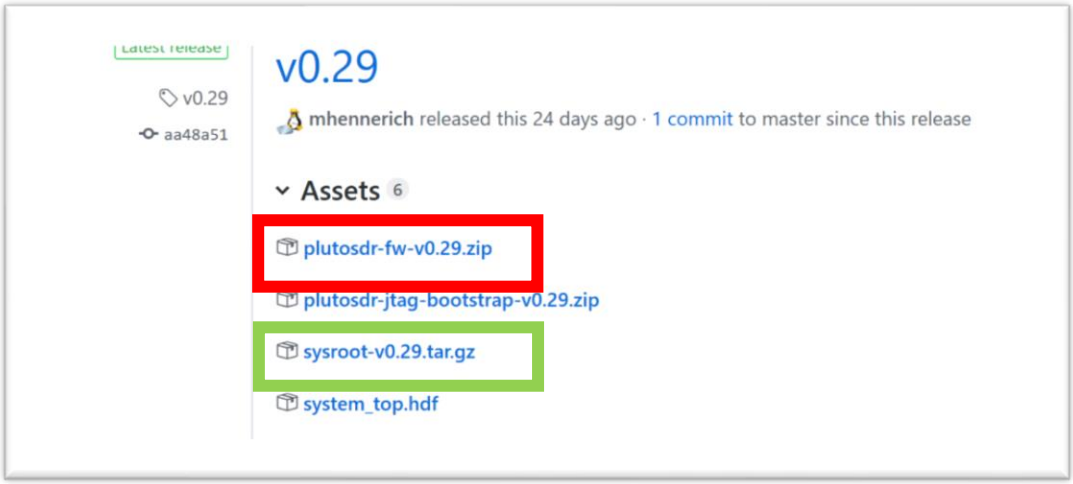


Figure 1

The link outlined in green contains the sysroot for the device itself. This is useful when you want to cross compile applications to run on PlutoSDR.

Next, connect PlutoSDR to your computer over USB. Make sure you are using the left USB port. The left port will supply power and provide data connectivity. The far-right USB port is purely for power.

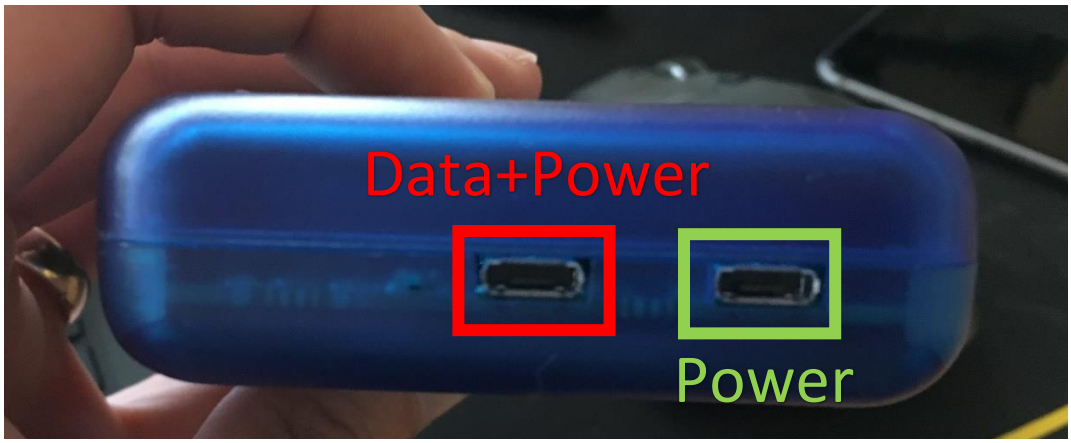


Figure 2

Once PlutoSDR boots and connects to your PC it will appear as three devices to the OS: a serial device, a network device, and a mass storage device. To update the firmware, we will be using the mass storage device.

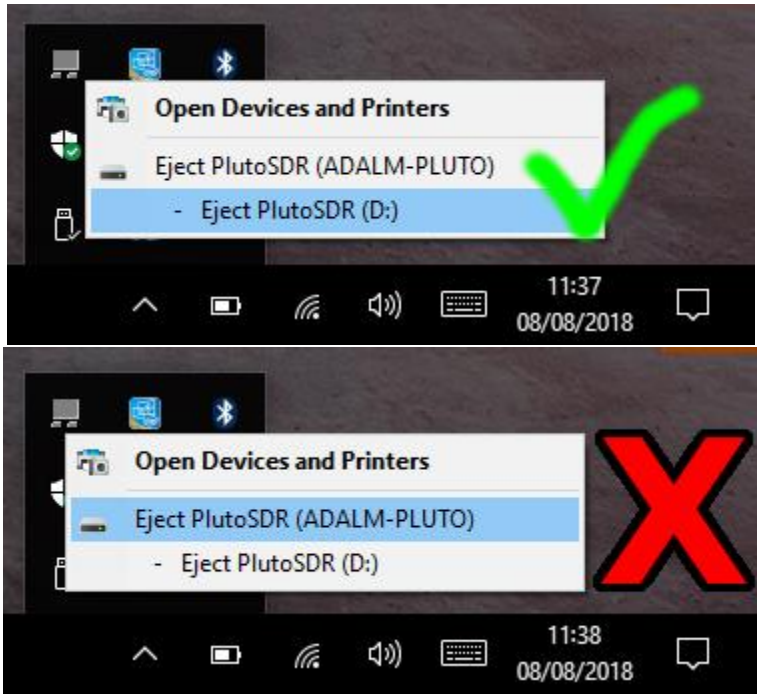
Mass Storage Update

Copy the **pluto.frm** file onto the mass storage device, and then eject it. LED1 will start blinking rapidly.

Don't disconnect the device until rapid blinking stops!!!

Windows Users

Only Eject the drive (shown with the driver letter) not the parent device!



Linux Users

You are running Linux, you can figure this one out.