使用 Uniflash 进行网口烧录的注意事项 ----Steven Liu

　　大家都知道使用 Uniflash 是可以对 AM335x PG2.0/2.1 的芯片进行 USB 烧录的，同样的，也可以进行网络烧录。本文针对在支持过程中遇到了各种使用网口烧录产生的问题做一个小结，希望对大家有所帮助。

1. **Image 制作注意事项：**

   首先，在使用网口烧录时，环境的搭建上面和 USB 烧录很类似，只是编译的配置选项可以略作修改，在主题帖的注意事项 2 中已经提到了：

   USB 进行烧写请使用：**am335x_evm_restore_flash_usbspl**；

   网口烧写请使用：**am335x_evm_restore_flash**；

   其他的制作流程基本一致，不用做改动。

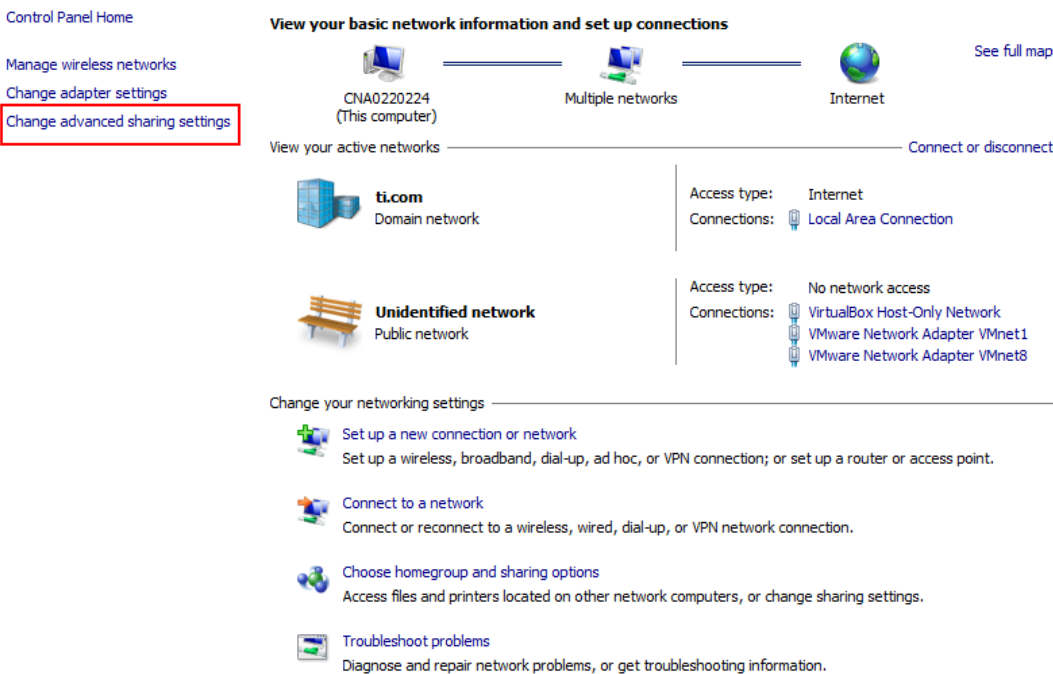   PS: 其实 USB 烧录生成的 image 直接可以用作网口烧录，只是还多了 USB 烧录的功能。

2. **网络连接注意事项：**

   对于网口烧录，网线和主机的连接需要注意一点：因为 ROM code 目前还没有自协商的功能，所以推荐的连接方式是通过交换机，或者路由器（关闭 DHCP 功能），连上板子和电脑。主机设置的 IP 应该与 Uniflash 中设置的一致，这样既可正常的进行网口烧录。

3. **主机设置注意事项：**

   主机端应要注意关闭防火墙。如果是 win7 的主机，需要注意打开相应的网络发现功能，参考操作如下：

   a. 点击红色框体;

   b. 打开网络发现等功能：

Public ▲

Network discovery

When network discovery is on, this computer can see other network computers and devices and is visible to other network computers. What is network discovery?

   ◉ Turn on network discovery

   ○ Turn off network discovery

File and printer sharing

When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.

   ◉ Turn on file and printer sharing

   ○ Turn off file and printer sharing

Public folder sharing

When Public folder sharing is on, people on the network, including homegroup members, can access files in the Public folders. What are the Public folders?

   ◉ Turn on sharing so anyone with network access can read and write files in the Public folders

   ○ Turn off Public folder sharing (people logged on to this computer can still access these folders)

Media streaming

When media streaming is on, people and devices on the network can access pictures, music, and videos on this computer. This computer can also find media on the network.

   Choose media streaming options...

File sharing connections

Windows 7 uses 128-bit encryption to help protect file sharing connections. Some devices don't support 128-bit encryption and must use 40- or 56-bit encryption.

   ◉ Use 128-bit encryption to help protect file sharing connections (recommended)

   ○ Enable file sharing for devices that use 40- or 56-bit encryption

4. **AM335x 板卡设置注意事项：**

板卡应该根据自己实际使用的网卡模式设置对应的比特位信息，参考 TRM 的 26.1.5 booting 章节的 Table 26-7。SYSBOOT[7：6]即为网卡模式的设置选择。

SYSBOOT[15:14]	SYSBOOT[13:12]	SYSBOOT[11:10]	SYSBOOT[9]	SYSBOOT[8]	SYSBOOT[7:6]	SYSBOOT[5]	SYSBOOT[4:0]	Boot Sequence			
00b = 19.2MHz 01b = 24MHz 10b = 25MHz 11b = 26MHz	00b (all other values reserved)	For XIP boot: 00b = non-muxed device 10b = muxed device x1b = reserved For NAND boot: must be 00b	0 = ECC done by ROM 1 = ECC handled by NAND	0 = 8-bit device 1 = 16-bit device	00b = MII 01b = RMII 10b = Reserved 11b = RGMII w/o internal delay	0 = CLKOUT1 disabled 1 = CLKOUT1 enabled	01010b	EMAC1	XIP (MUX1)[2]	SPI0	NANDI2C