Linux demo image deployment

1. Decompress the Linux demo image (~Desktop\FTF-CSD-F0066\MX6_BSP\L3.0.15_12.04.01_ER_images_MX6X.tar.gz)

2. Copy the Ubuntu SABRE SD images files

   ~\L3.0.15_12.04.01_ER_images_MX6X\u-boot-mx6q-sabresd.bin,

   ~\L3.0.15_12.04.01_ER_images_MX6X\uImage

   ~\ oneric.tgz

   to the i.MX6Q Linux MFG tool profile folder (~\Mfgtools-Rel-12.04.01_ER_MX6Q_UPDATER\Profiles\MX6Q Linux Update\OS Firmware\files).

Linux demo image deployment

3. Connect the UBS OTG port (J505, bottom) from the SABRE SD to the computer.

4. Connect the USB to SERIAL port (J509, bottom) from the SABRE SD to the computer.

5. Open HyperTerminal on the Windows PC (start->All Programs->Accessories->Communications->Hyper Terminal)

6. Name your new connection IMX6 and click OK

7. Click OK on the Connect to windows

Linux demo image deployment

8. Configure the Port Settings as shown and click OK
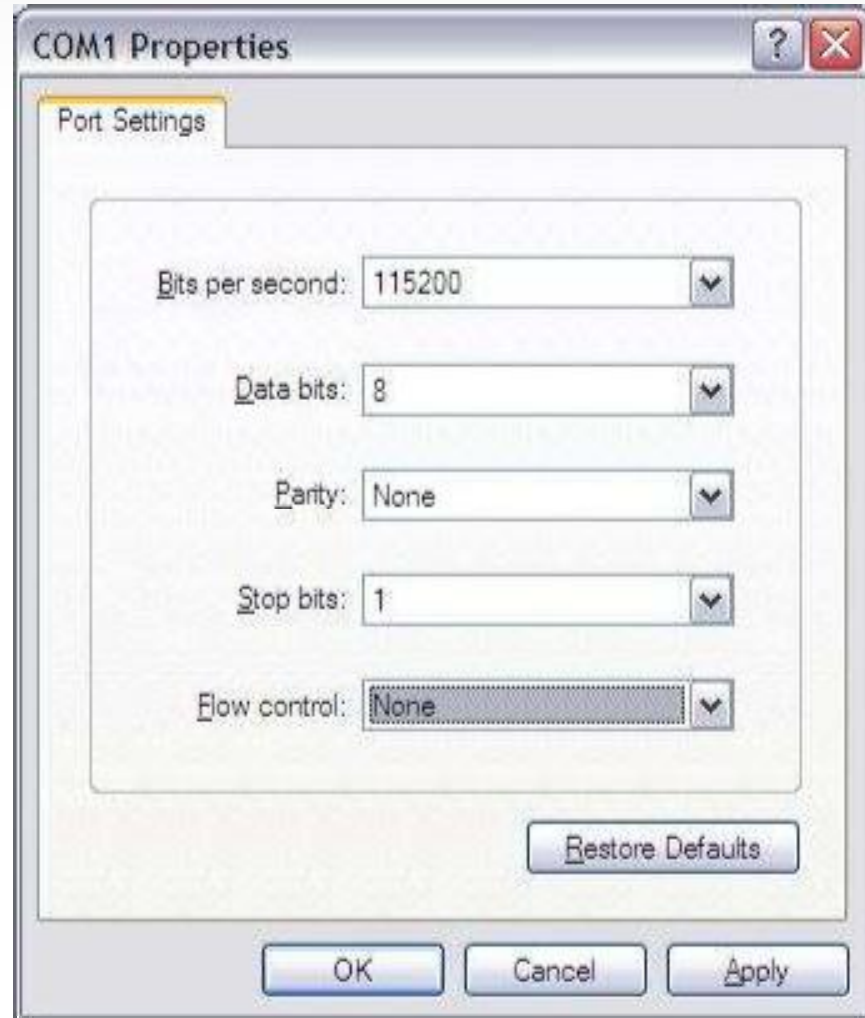
Linux demo image deployment

9. Set the board to the serial download mode, Change Boot Switch(SW6) to 00001100 (from 1-8 bit).

10. Plug in the Power supply to the board.

11. Start the MFGTool by clicking "~\Mfgtools-Rel-12.04.01_ER_MX6Q_UPDATER\MFGTool.exe" The user interface of this tool should as below:
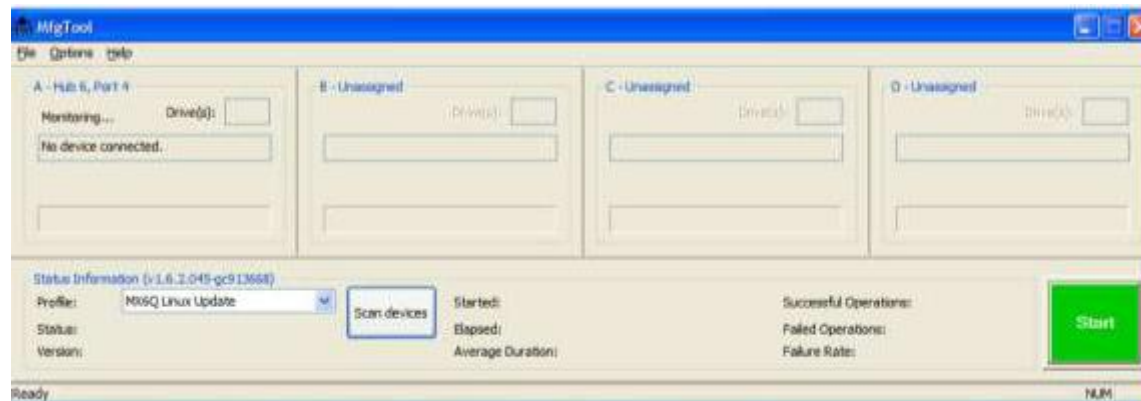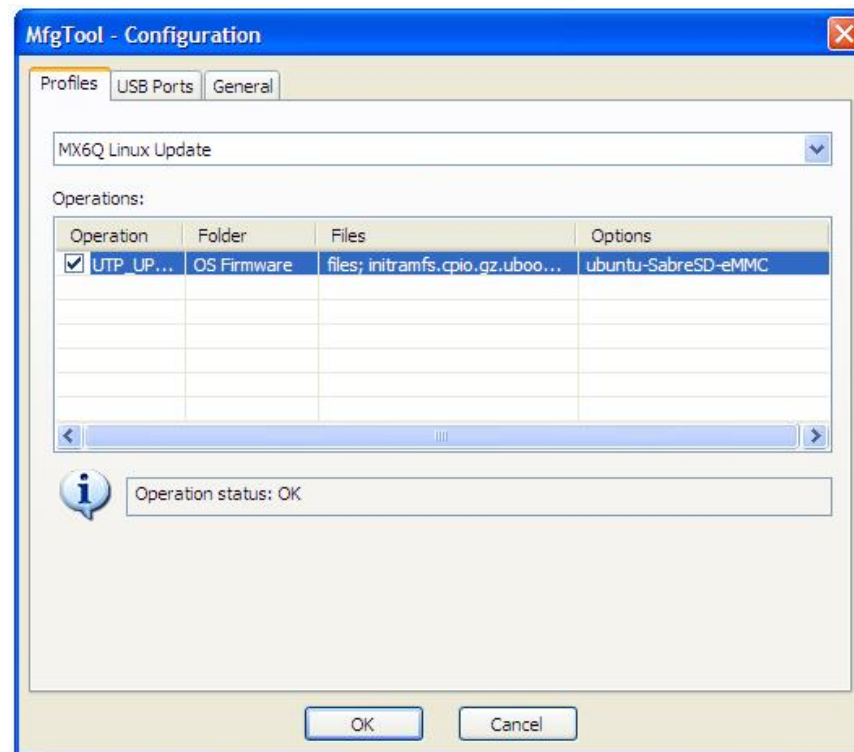
Linux demo image deployment

12. Click Scan devices, which will update the dialog to HID-compliant device as show on the next image.

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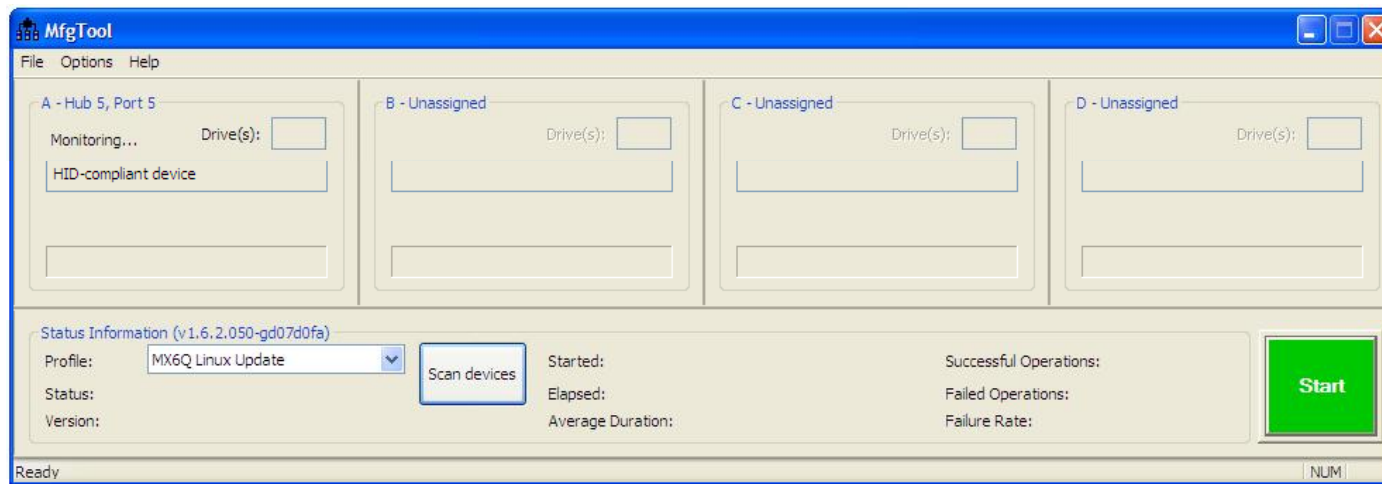
Linux demo image deployment

13. Configure the profile, go to Option -> Configuration.. -> Profiles and choose the ubuntu-SabreSD-eMMC profile on the Options section and click OK

Linux demo image deployment

14. Click start to start image downloading.

15. During the downloading process, you will see the tool become below image, and the status bar will show downloading status. You can also see the progress on the hyper terminal window.
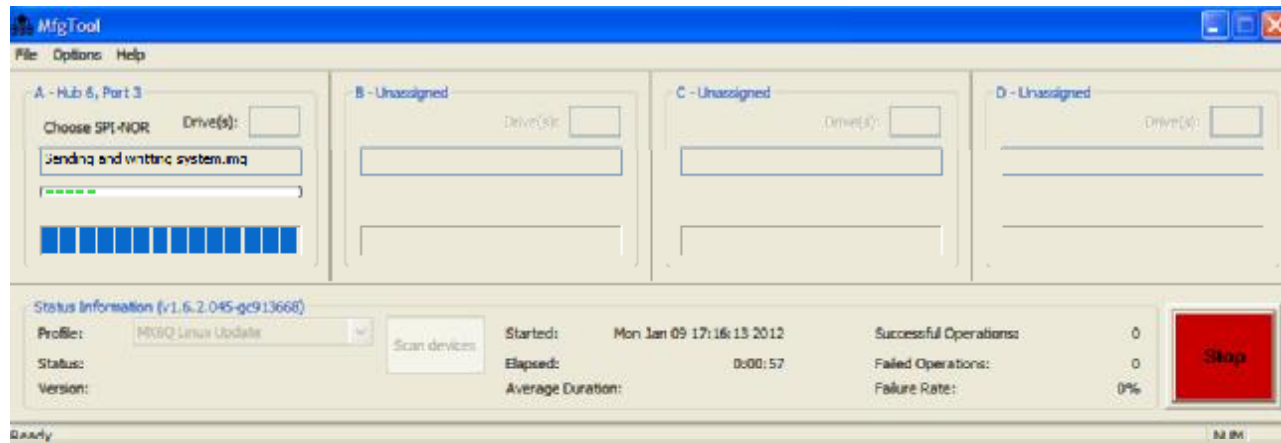
Linux demo image deployment

16. Wait until the download process is done, the MFG tool will display the Operation Compete message when is done.

17. Click Stop and disconnect the USB cable.

18. Change Boot Switch(SW6) to 11100110 to switch the board back to eMMC boot mode.

19. Power down the board and disconnect the LVDS cable

20. Connect the LVDS cable to the LVDS0 port

21. Power up the board to start the boot process.

22. The Ubuntu image should boot and the Ubuntu GUI will be displayed on the LVDS display.

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Agenda - i.MX 6 Series Basics

- The i.MX 6 Family, i.MX 6Quad SOC and the i.MX 6Quad SABRE Board for Smart Devices

- i.MX 6Quad Android BSP

- Android demo image deployment

- Android benchmark application deployment

- i.MX 6Quad Linux BSP

- Linux demo image deployment

- **Linux benchmark compiling and deployment**