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1. QFIT1620 New Features

1. Support for MDM9x00 and MDM8220
2. Support for 4K page flash
3. Support for HAL flash tables
4. Fix for appsboot.mbn missing

2. QFIT1620 Requirements

1. To make a factory image, **the file mibib.mbn must exist** in the \build\ms\bin\<<build_id> directory.
2. To verify the factory image with JTAG or USB, the file \tools\mjnand.cmm must include the option "Program Factory Image".
3. FactoryImage2.mbn is the only factory image output file created. **Customers using DataIO factory programmers will be required to use bad block handling type 'Qualcomm Multiple Partition v2.1'**. Contact DataIO for support.

3. Installation and First Time Start Up

3.1 Installation Mandatory Requirements

1. Windows computer
2. Binary files:
 - a. AMSS mbn files.
 - b. Any operating system files, eg flash.bin, system.img, etc
3. QFIT requires access to a writeable directory. If QFIT is installed on a read only server, creating an environment variable QFIT_LOCAL will cause QFIT to write all files to the local machine. Open DOS window in QFIT directory and enter the following:
 - a. **set QFIT_LOCAL=c:\Temp_directory**
4. Windows debug dll's are required. See Appendix D for instruction to install these dll's.

3.2 Installation Optional Requirements

1. To verify factory image with USB:
 - a. Customer phone with USB connection and USB cable.
 - b. QPST 2.7.253 or newer version.
 - c. QCT USB driver USB_WIN2KXP2052 or newer version.
 - d. NPRG*.hex file. This MSM specific file is stored in the mbn file directory.
2. To verify factory image with JTAG:
 - a. Customer phone with JTAG connection
 - b. Lauterbach JTAG
 - c. AMSS build that includes tools\mjnand directory and any cmm files located in other directories.
 - d. tools\mjnand\Mjnand.cmm file must include the option "Program Factory Image", which provides capability to program factory image into the phone using JTAG (see 6 Verifying the Factory Image with JTAG)

3.3 QFIT Installation

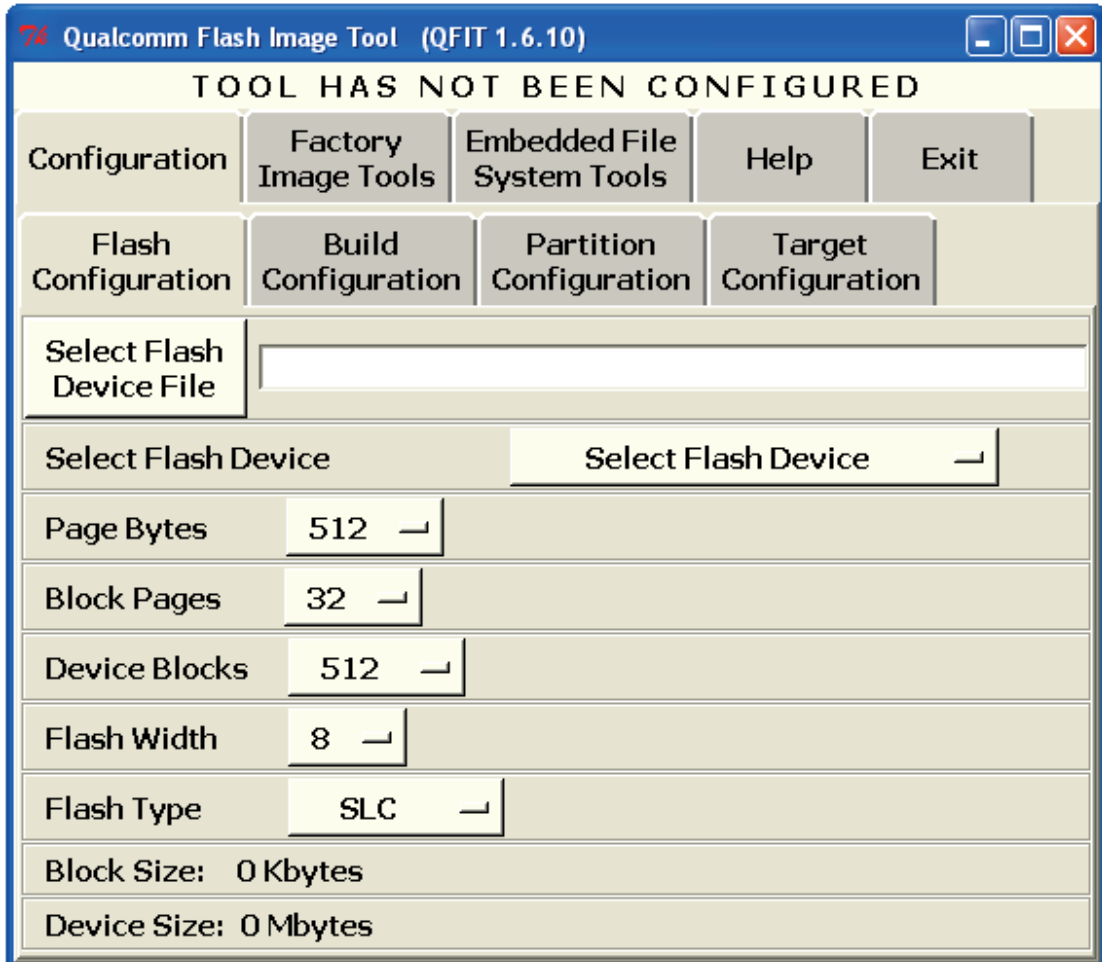
1. Install QFIT files in any directory.
2. If AMSS build is available, install QFIT files in \tools\qfit directory.
3. If you are installing QFIT1600 in an existing QFIT directory, delete QFITuser.txt and QFITconfig2.txt.

3.4 QFIT First Time Start Up

1. Open DOS command window in QFIT directory.
2. Type **QFIT.exe**, and press enter
3. First time startup:
 - a. The QFIT User Guide is opened (this document). Close the QFIT User Guide to continue.
 - b. The Local directory is created on your machine. If QFIT is stored on a read only server, create environment variable QFIT_LOCAL to identify a writeable directory on your local machine. See section 3.1.6.

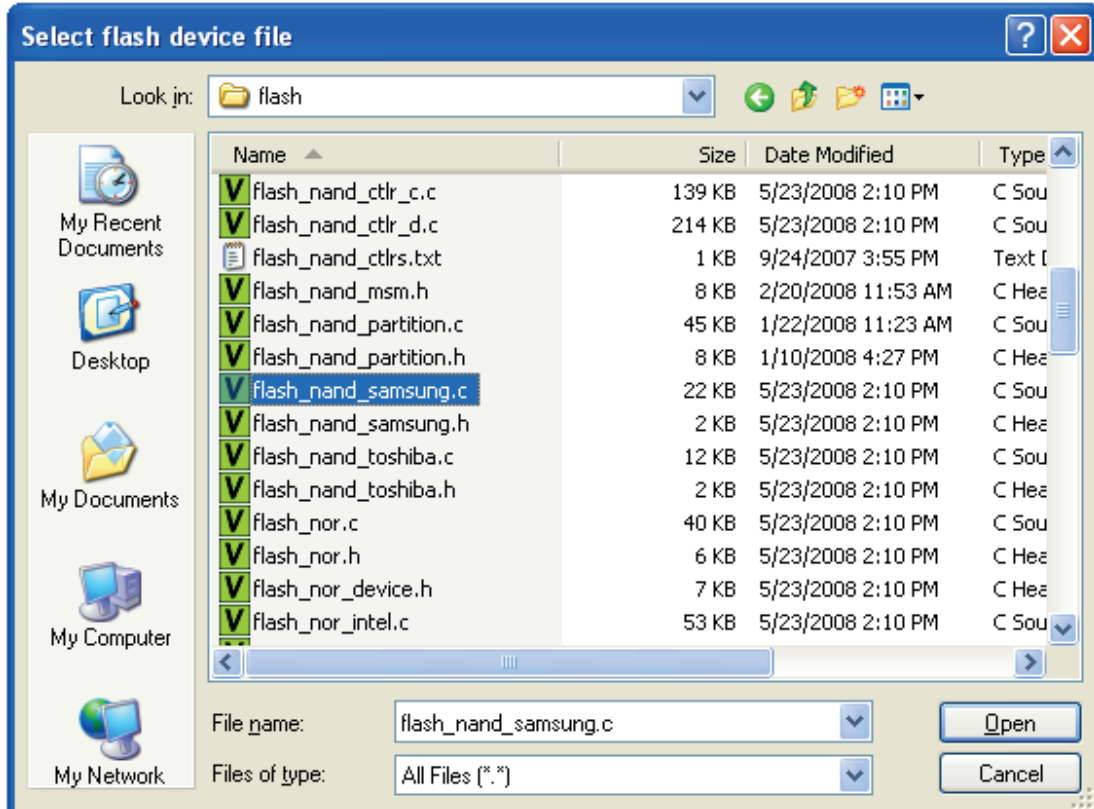
4. Configuration

1. Select the QFIT **Configuration** tab:

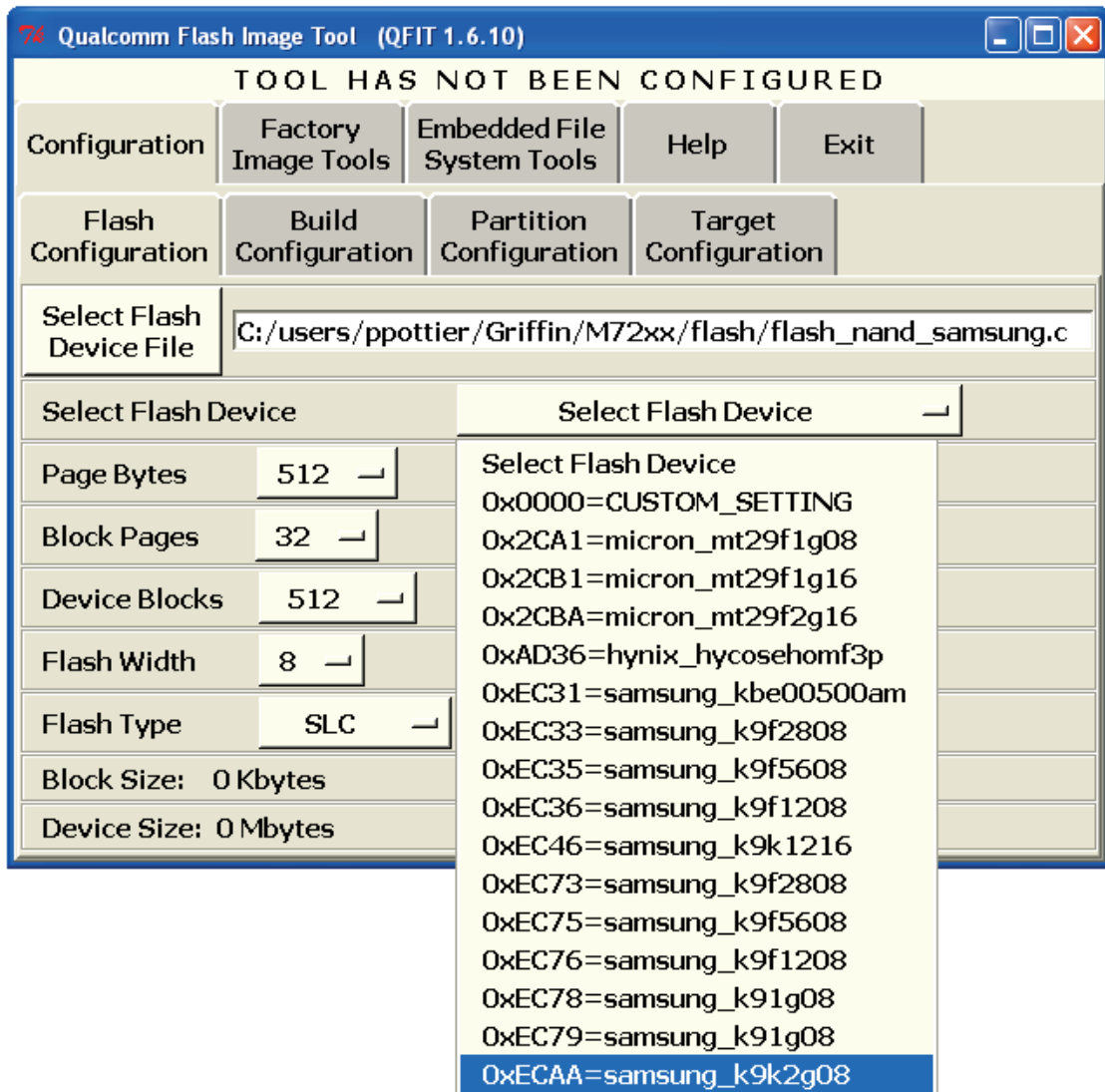


2. For low resolution displays, the entire image above will not be visible. To correct, see **Appendix E Configure Display Resolution**.

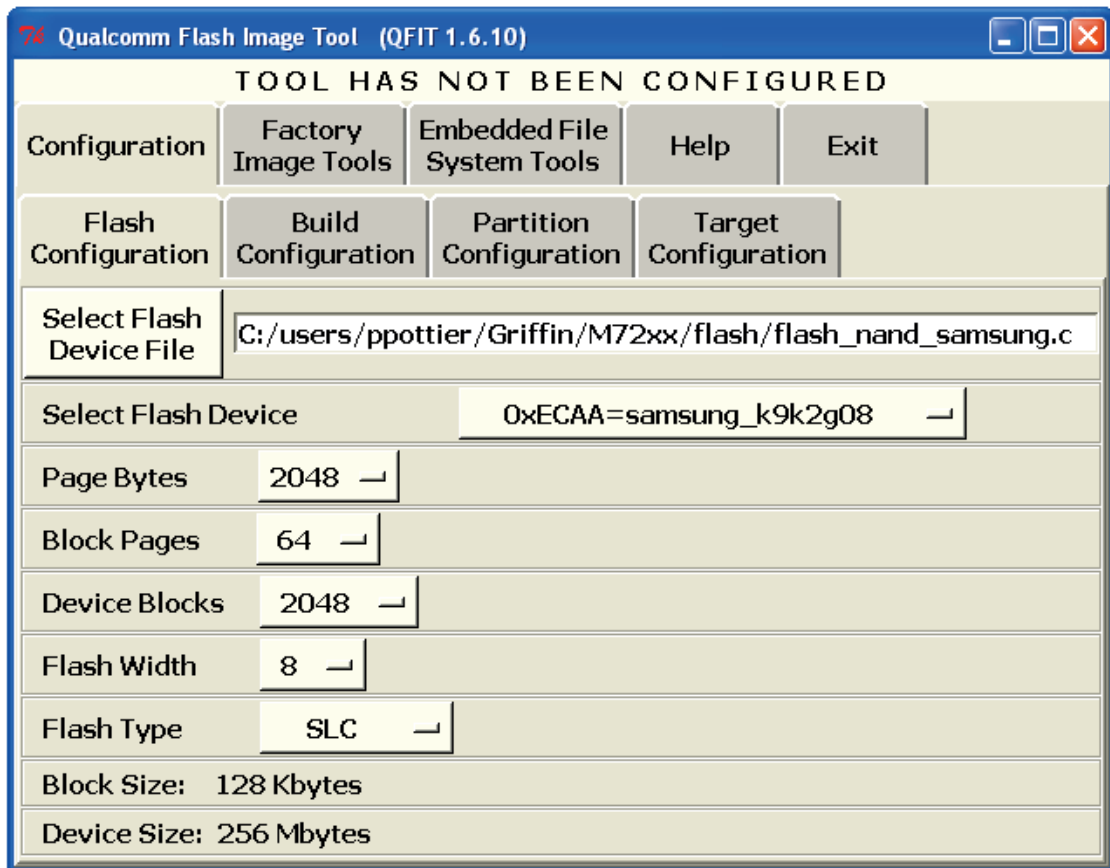
3. If a flash device file is available, click on the **Select Flash Device File** button. Select a flash nand device file with a flash table format compatible with AMSS builds. (See Appendix ? for details on AMSS flash table format).



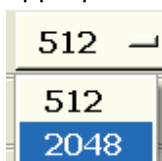
4. Click on the **Select Flash Device** drop down menu to select a flash device.



5. The flash parameter section will be updated for the device selected



6. If a flash device file is not available, select correct value for **Page Bytes**, **Block Pages**, **Device Blocks**, **Flash Width**, and **Flash Type** by selecting the appropriate drop down menu. For example, **Page Bytes** selection:

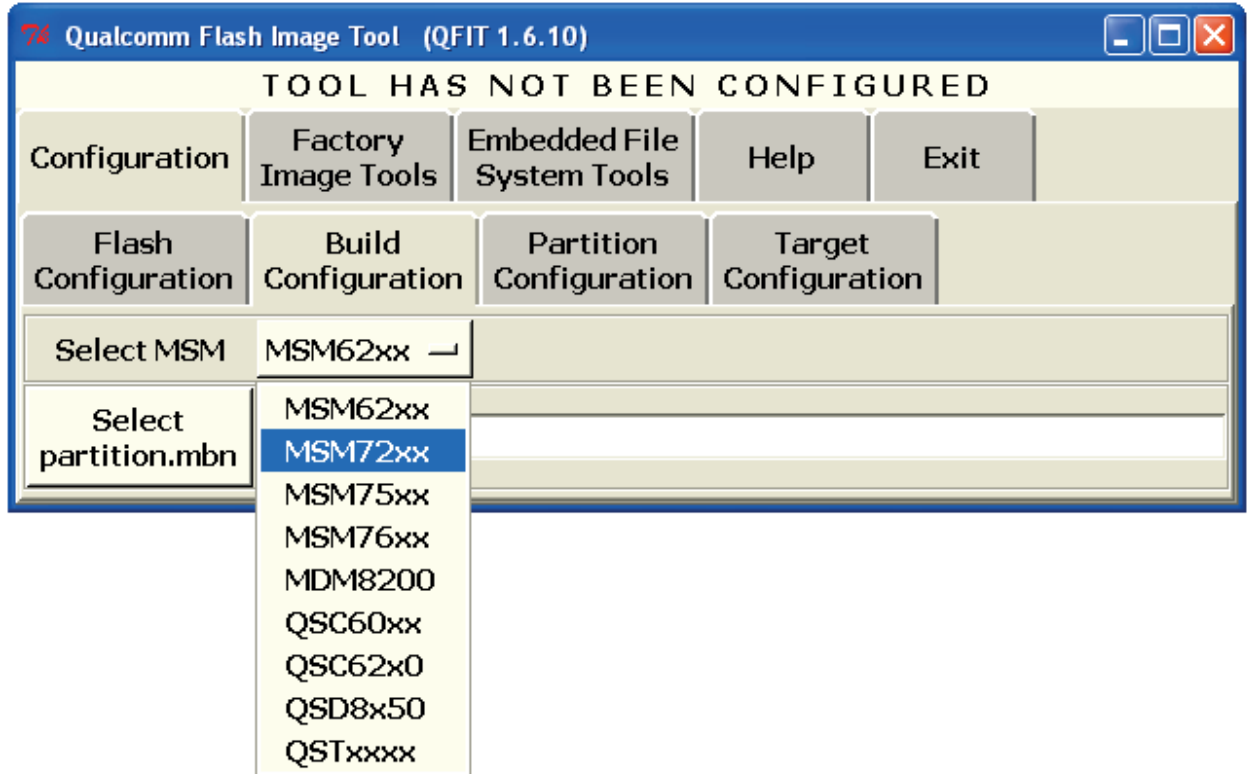


7. When a flash parameter is changed, the flash device is update to **CUSTOM_SETTING**:

Select Flash Device	0x0000=CUSTOM_SETTING ▾
Page Bytes	2048 ▾
Block Pages	32 ▾
Device Blocks	512 ▾
Flash Width	8 ▾
Flash Type	SLC ▾
Block Size:	64 Kbytes
Device Size:	32 Mbytes

8. After a flash device file and a flash device are selected, any parameters for that flash device can be changed.

9. At the **Build Configuration** tab, click on **Select MSM** drop down menu button (small rectangle to the right of **MSM62xx**), then scroll down to select the MSM (here **MSM72xx** is selected):



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