



HDCC-OG1/OG2 Rear Panel Firmware Update Instructions

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Last Update

July 26, 2013

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Updating the Rear Panel Firmware

Objective

This document details the instructions for updating the firmware on the Rear Panel of an OG1 or OG 2 HDCC card.

Requirements

The following must be present before this software update should be attempted:

1. You must have a Wohler HDCC card with an OG1 or OG2 Rear Panel. The software in the Rear Panel must be operational. The card should be powered and accessible via an Ethernet network.
2. You must have a Windows-based PC with network connectivity to the HDCC card.
3. You must have an update file in .bin format that contains the new firmware image to load on the Rear Panel. This will be provided to you by the Wohler Technologies Technical Support Engineer you are working with to perform this firmware update.
4. A web browser (Internet Explorer, Google Chrome, etc.) must be running on the Windows PC
5. Texas Instruments LM Flash Programmer: The LM Flash Programmer is a free flash programming utility intended to be used with Texas Instruments Stellaris[®] microcontrollers. It is

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downloadable (registration required) from Texas Instruments at this address: <http://www.ti.com/tool/lmflashprogrammer>. The installation file is called LMFlashProgrammer.msi. Once it is copied to your Windows PC, it can be executed by double-clicking on it.

Procedure

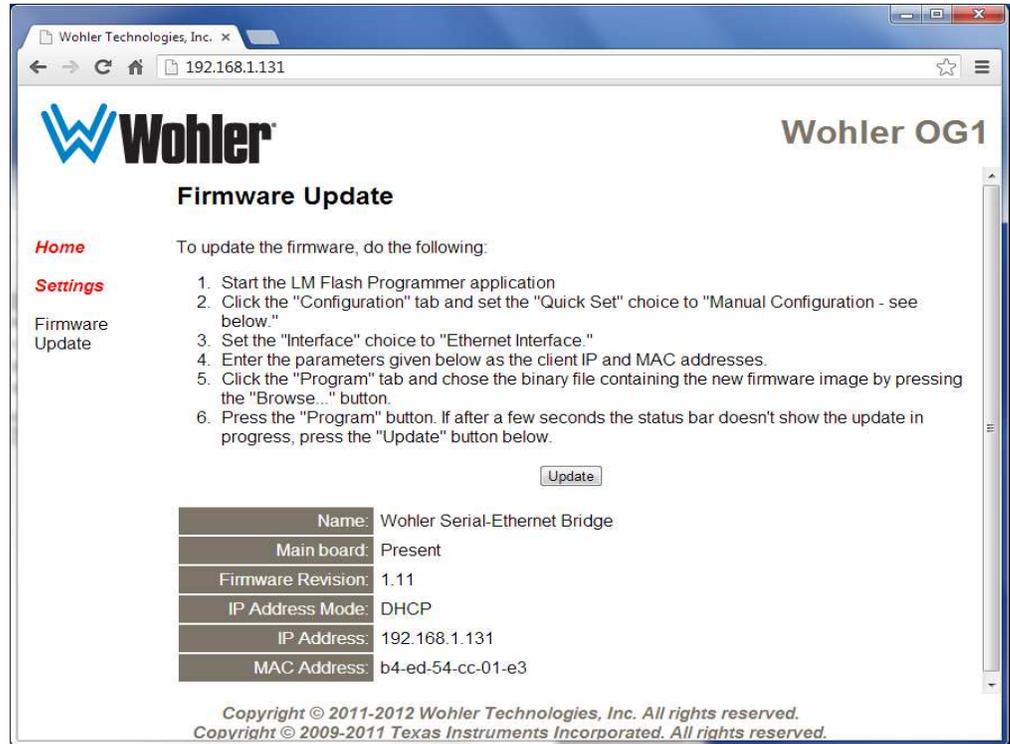
1. Open the Wohler OG1 or OG2 Status & Configuration page in a web browser by typing the card's IP address into the address bar. Alternatively, in the Network folder of Windows Explorer you can locate the Wohler Serial-Ethernet Bridge and double-click on it

Figure 1-1 Wohler OG1 Status & Configuration

	Port 0	Port 1
Baud Rate:	115200 bits/second	115200 bits/second
Data Size:	8 bits/character	8 bits/character
Parity:	None	None
Stop Bits:	1 bit(s)	1 bit(s)
Telnet Port Number:	23	5167

2. Select **Firmware Update** from the menu on the left side of the home page. The **Firmware Update** page will appear in the browser as shown in [Figure 1-2](#):

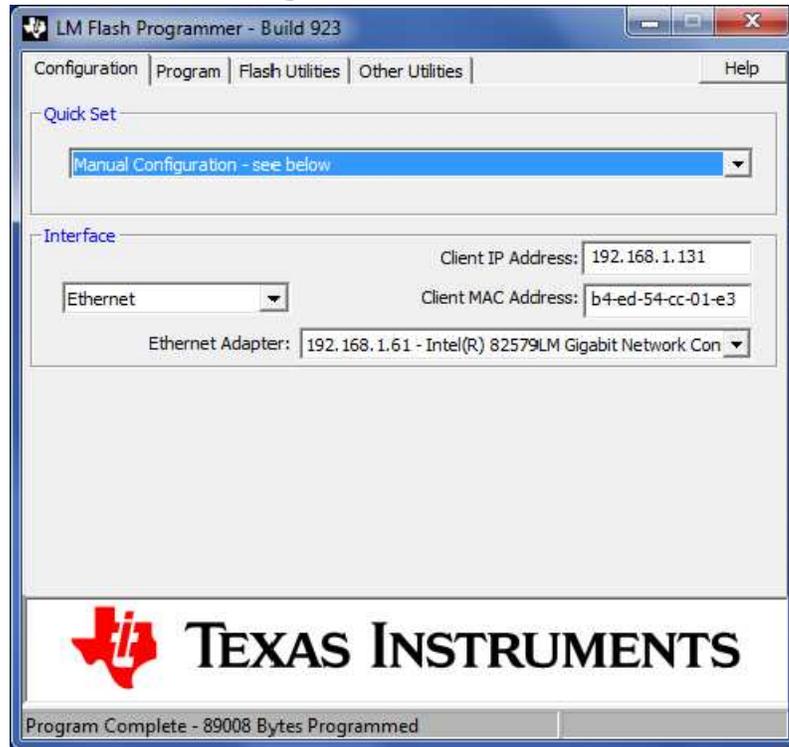
Figure 1-2 Firmware Update



3. Run the LM Flash Programmer. It will start in a separate window, as shown in [Figure 1-3 on Page 4](#). It will start showing the **Configuration** tab.

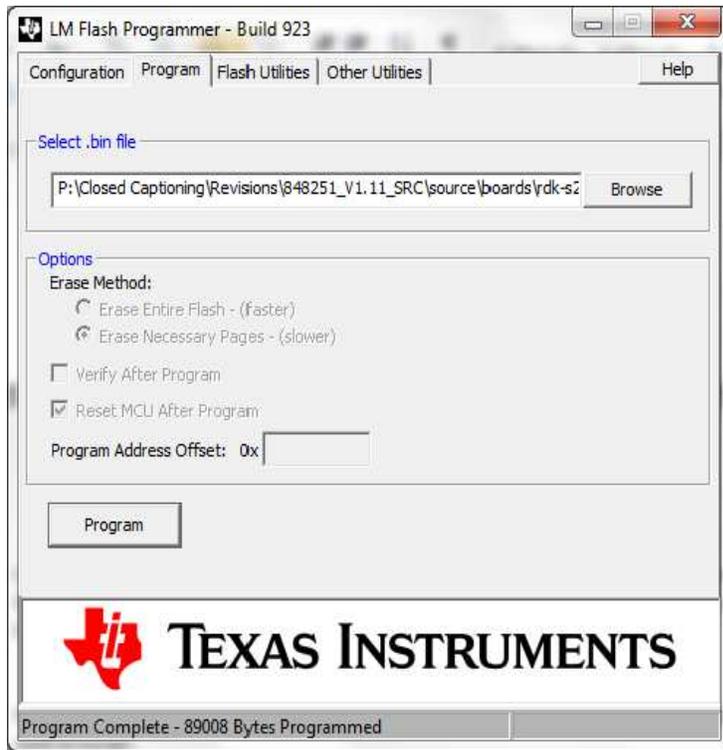
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Figure 1–3 Configuration Tab



4. On the **Configuration** tab, as shown in [Figure 1–3](#), set the **Quick Set** to **Manual Configuration**.
5. In the **Interface** group, select **Ethernet** from the pull-down menu and in the appropriate textboxes enter the same **IP** and **MAC** addresses that appear on the Firmware Update screen of the HDCC card, as shown in [Figure 1–2 on Page 3](#).
6. Select the **Program** tab of the LM Flash Programmer.

Figure 1–4 Program Tab



7. Select the .bin file that contains the firmware update by typing or browsing its path.
8. Click the **Program** button. A bar graph in the status bar of the LM Flash Programmer window will show programming progress.
9. If you don't see the progress bar, click the **Update** button on the **Firmware Update** page.
10. After the progress bar completes, refresh the web page in your browser and the **Status & Configuration** page, shown in [Figure 1–1 on Page 2](#), should now show the updated firmware revision number.
11. The Firmware Update Procedure is complete.