

# FIRMWARE UPDATE

- This manual is suitable for both GDM-8261 and GDM-8261A. The GDM-8261(A) DMM has upgradable firmware to ensure your purchase has a long and useful life with updates and improvements. The GDM-8261(A) makes the task of updating firmware quick and easy. For hassle-free firmware updates it is recommended that the procedures in this guide are followed.
- The optional Ethernet card also has upgradeable firmware that can be updated using the provided LM Flash Programmer software.

## GDM-8261 (A) Firmware Update

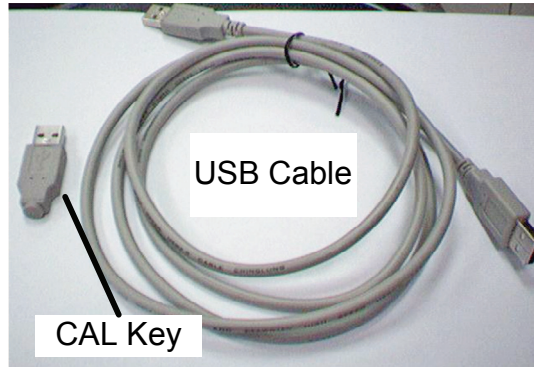
### GDM-8261 (A) Firmware Requirements

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Hardware	GDM-8261(A) CAL (calibration) Key. GTL-247 USB Cable
Software	Windows Operating System (XP, Windows 7). GDM-8261(A) Firmware (*.S19). Note: Contact your local distributor for the latest firmware.

## GDM-8261(A) Firmware Update Procedure

- Firmware Update Procedure
1. To update the DMM firmware, the GTL-247 USB cable and the GDM-01 Calibration key are required.



2. Ensure the power is off on the DMM.
3. Insert the USB cable into the rear panel USB port on the DMM. Insert the CAL key into the CAL KEY port on the rear panel.



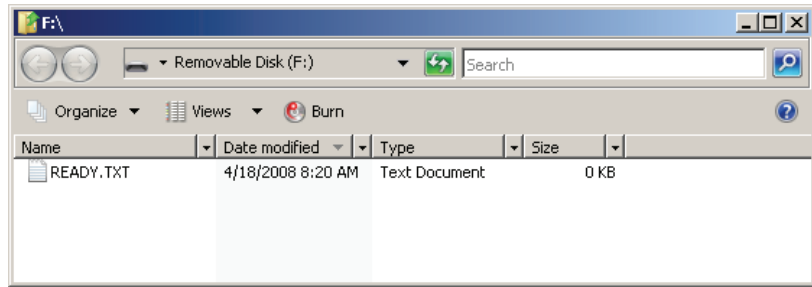
4. Plug the other end of the USB cable into the PC that will perform the update.



5. Power up the DMM. The screen should be blank at this stage.



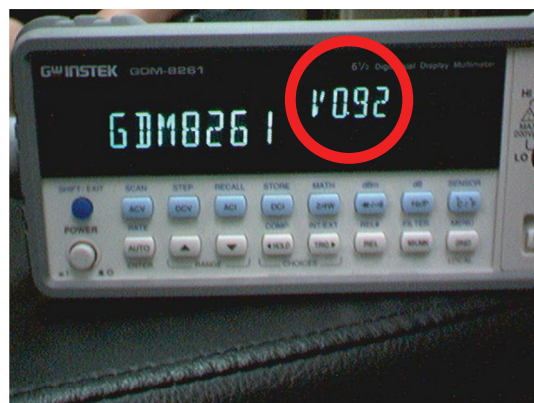
6. The DMM should now be accessible as a removable disk in the Windows File Explorer. Here, for example as F:\



7. Copy the firmware file “GW GDM8261V105\_A100\_20120911.S19” to the new removable disk.
8. When the file has finished copying over, disconnect the USB cable and CAL key from the DMM rear panel.



9. Reset the power on the DMM.
10. The new firmware will be seen during the power-up sequence.



11. The upgrade procedure is complete.



If for any reason the firmware upgrade procedure fails, please reset the power and repeat the upgrade procedure again, starting from step #5.

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# Ethernet Card Firmware Update

## Ethernet Firmware Requirements


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Hardware	GDM-8261(A) GDM-8261(A) Ethernet card. Mini jumper (shorting connector) RJ-45 cable × 1 Router (only if there are none in the local area network)
Software	Windows Operating System (XP or higher). GDM-8261(A) Ethernet Card Firmware (*.bin). Note: Contact your local distributor for the latest firmware. Firmware update software (LM Flash Programmer)

## LM Flash Programmer Installation

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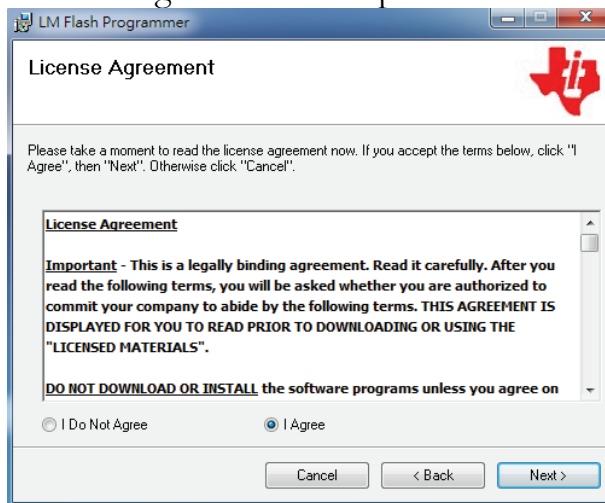
- Steps
1. Click on the LMFlashProgrammer.msi file to start the installation process.

 LMFlashProgrammer.msi

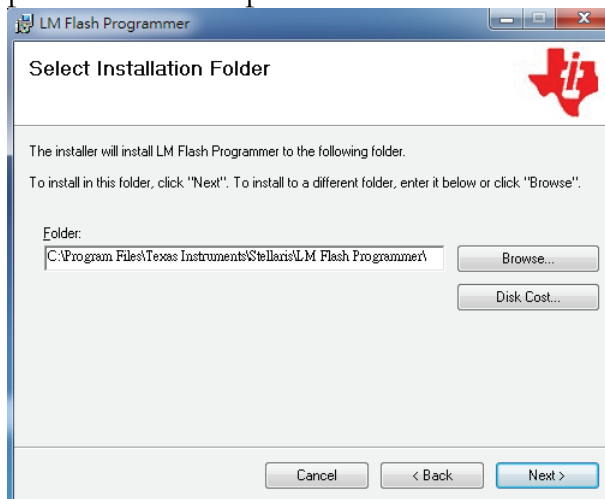
2. Press “Next” at the Welcome screen.



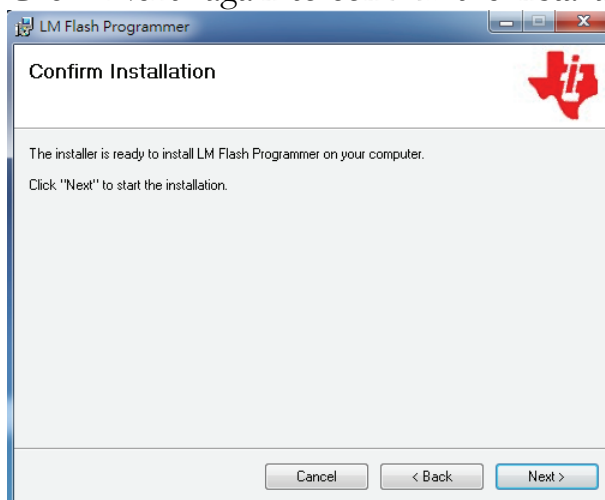
- Click “I Agree” and then press “Next” to proceed.



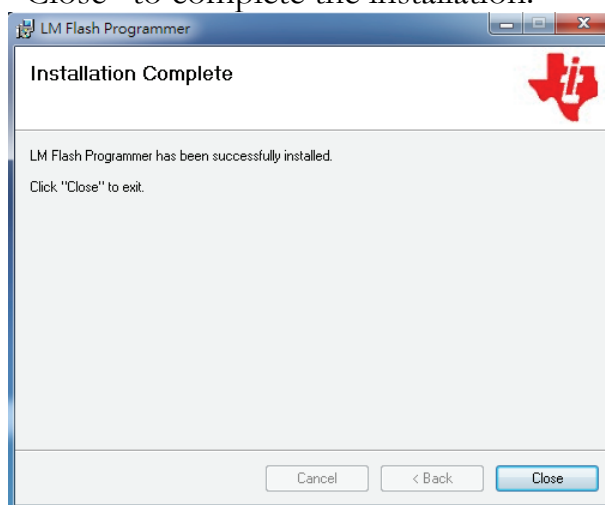
- Choose a destination folder for the installation and press “Next” to proceed with the installation.



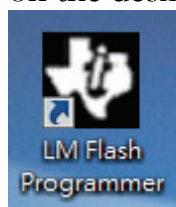
- Click “Next” again to confirm the installation.



6. Wait for the installation process to finish and click “Close” to complete the installation.

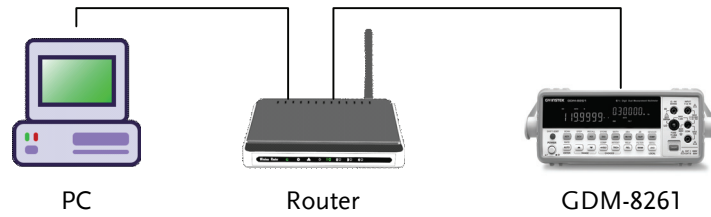


7. The LM Flash Programmer icon will be displayed on the desktop.



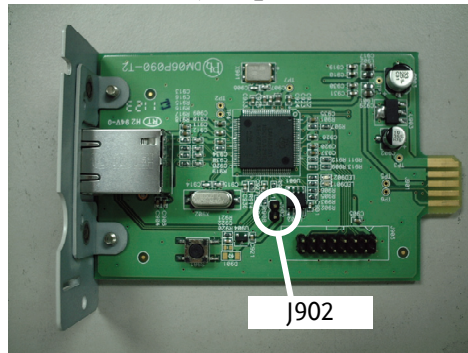
## Ethernet Firmware Update Procedure

### Hardware Configuration

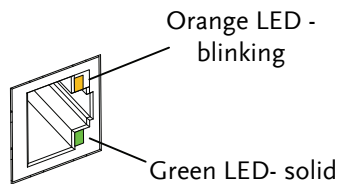


### Ethernet Firmware Update Procedure

1. Power off the GDM-8261(A).
2. Remove the GDM-8261(A) Ethernet card from the rear panel slot.
3. Use the mini jumper to short the J902 pin headers.



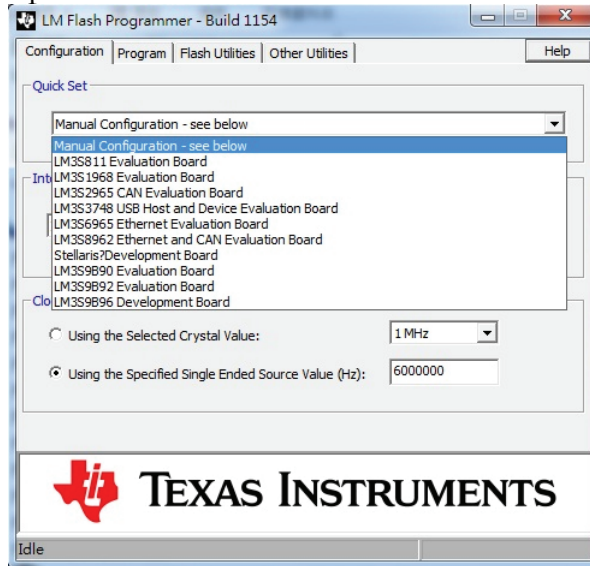
4. Re-insert the Ethernet card back into the GDM-8261(A) rear panel slot.
5. Connect the RJ45 cables to the PC, router and GDM-8261(A) Ethernet card as shown in the hardware configuration diagram above.
6. Power up the GDM-8261(A).
7. The Ethernet card will enter into the bootloader mode. When in bootloader mode, the green LED on the RJ45 port will turn on and the orange LED will blink.



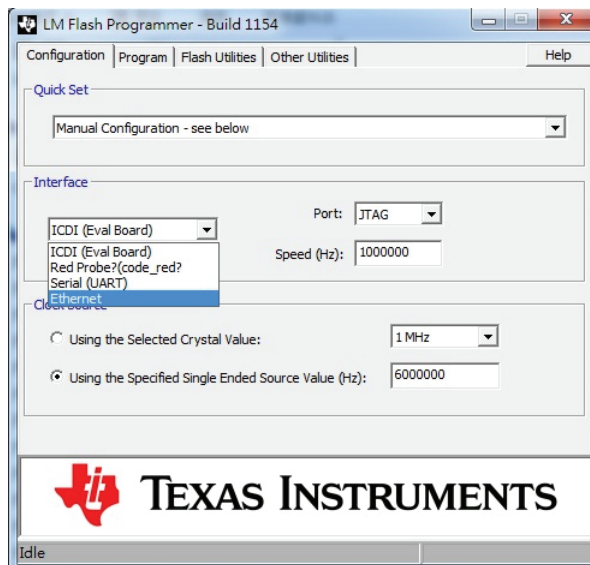
(Note: during normal operation, the orange LED will turn on and the green LED will blink)



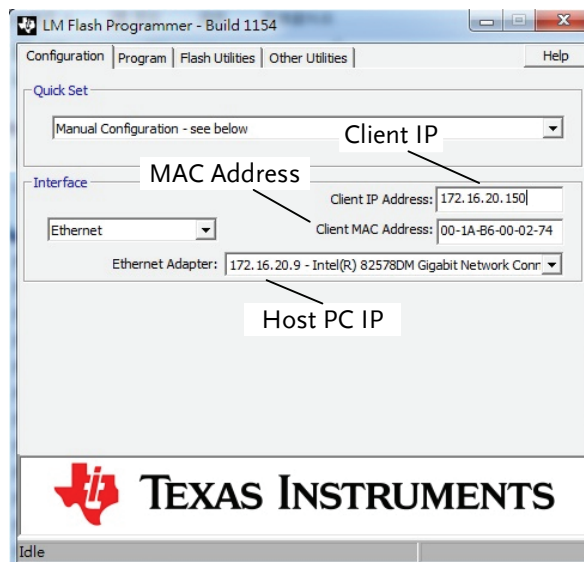
8. Start LM Flash programmer from the icon on the desktop.
9. Click on the “Configuration” tab and choose Manual Configuration from the “Quick Set” options.



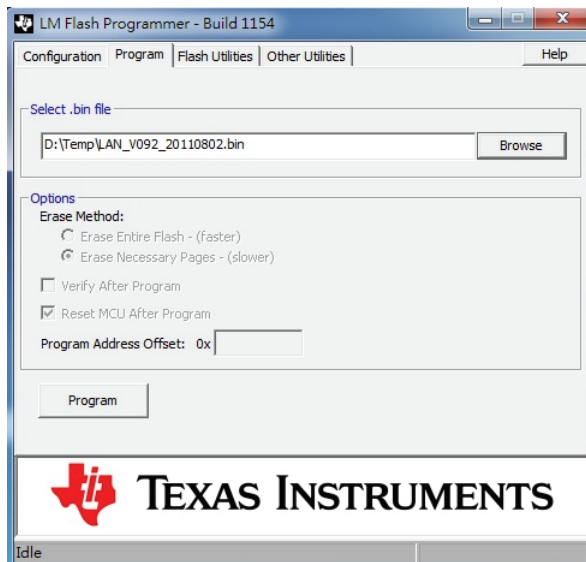
10. Choose Ethernet from the “Interface” options.



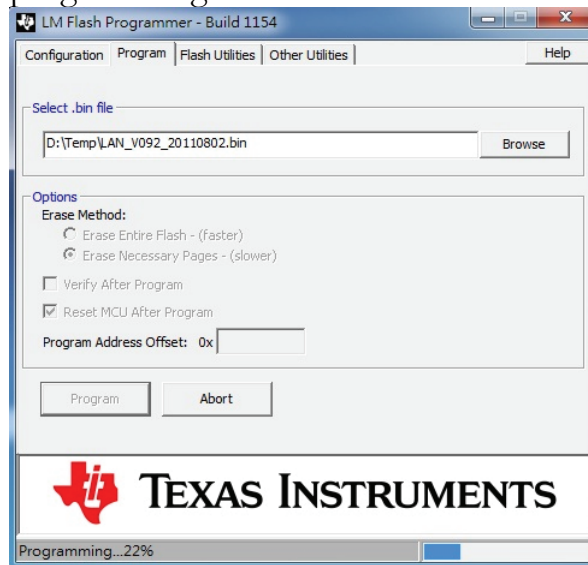
11. Set the Client IP Address to an un-occupied IP address. Ensure the IP address uses the same subnet IP as the host PC IP. For example if the PC IP is 172.16.20.9, then the client IP can be set to 172.16.20.XXX.
12. Set the Client MAC Address as the MAC address of the Ethernet card.



13. Click on the “Program” tab. From the “Select Bin File” option, click the “Browse” button and find the LAN firmware.bin file.



14. Click on the “Program” button to begin programming the Ethernet card.



Note

Do not remove the RJ45 cable, turn off the power from the PC, the GDM-8261 (A) or the router when the new firmware is being programmed into the Ethernet card.

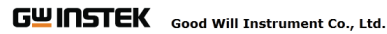
15. “Program Complete” will be displayed when programming has been completed.



16. After the firmware has been programmed, turn off the GDM-8261(A). Remove the Ethernet card and remove the mini jumper from the J902 header pins.
17. Reinstall the Ethernet card into the rear panel slot.
18. Connect the Ethernet card to the router/PC again and turn on the GDM-8261(A).

- Confirm Firmware Version 19. Start the Web Control Interface (please see the user manual for details) by entering the Ethernet IP address into a Java-enabled web browser.

- Click the “View & Modify Configuration” icon to see if the firmware update was successful.



**Miscellaneous Settings**

Firmware Version

Name:	GW8261-EI655555
Firmware Revision:	0.92
IP Address:	172.16.20.80
MAC Address:	00-1a-b6-00-02-74

**IP Address Selection**

Address Type:	DHCP/Auto-IP						
Static IP Address:	192	168	0	1			
Subnet Mask:	255	255	255	0			
Default Gateway:	192	168	0	254			
DNS:	0	0	0	0	0	0	0

[Update Settings](#)

**General Configuration Settings**