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 RequirementsHardwareGDM-8261(A)
CAL (calibration) Key.
GTL-247 USB CableSoftwareWindows 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 Update1.To update the DMM firmware, the GTL-247 USBProcedurecable and the GDM-01 Calibration key are
required.



- 2. Ensure the power is off on the DMM.
- 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.



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



- 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
∠•_\Note	procedure again, starting from step #5.

Ethernet Card Firmware Update

Ethernet Firmware Requirements

Hardware	GDM-8261(A)
	GDM-8261(A) Ethernet card.
	Mini jumper (shorting connector)
	RJ-45 cable \times 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

Steps

- Click on the LMFlashProgrammer.msi file to start the installation process.
 LMFlashProgrammer.msi
- 2. Press "Next" at the Welcome screen.



3. Click "I Agree" and then press "Next" to proceed.



4. Choose a destination folder for the installation and press "Next" to proceed with the installation.

岃 LM Flash Programmer	×
Select Installation Folder	-
The installer will install LM Flash Programmer to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below	or click "Browse".
Eolder: C.'Program Files'Texas Instruments'Stellaris'LM Flash Programmer(Browse Disk Cost
Cancel < Back	Next >

5. 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 <u>on the desktop</u>.



Ethernet Firmware Update Procedure

Hardware Configuration



Ethernet Firmware 1. Update Procedure

- 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.

LM Flash Programmer - Buil	d 1154	
Configuration Program Flash Util	ities Other Utilities	Help
- Ouick Set		
Manual Configuration - see bel	ow	_
Interface		
	Port: JTAG	-
ICDI (Eval Board)	0	
Red Probe?(code_red?	Speed (Hz): 1000000	
Serial (UART)		
O Using the Selected Crystal V.	alue: 1	MHZ
Using the Specified Single En	ded Source Value (Hz): 60	00000
	C INCTDI	IMENITS
	INSTRU	JIVIEINIS
-		
die		

- 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.

LM Flash Prog	grammer - Build 1154		X
Configuration Pro	ogram Flash Utilities Other (Jtilities	Help
Quick Set			
Manual Confi	guration - see below	Client IP	•
Interface	MAC Address		<
Interface		Client IP Address: 17	2.16.20.150
Ethernet	•	Client MAC Address: 00	-1A-B6-00-02-74
Eth	ernet Adapter: 172.16.20.9 -	Intel(R) 82578DM Gigabit	t Network Conr 💌
		`	
	Hos	t PC IP	
-			
	Texas In	ISTRUM	ENTS
Idle			

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.

D:\Temp\LAN_V09	2_20110802.bin	Browse
ptions		
Erase Method:		
C Erase Entire	Flash - (faster)	
Crase Neces	sary Pages - (slower)	
Verify After Pro	gram	
🔽 Reset MCU Afte	er Program	
Program Address C	offset: 0x	
Program	Abort	

Do fro Note Et	o not remove the RJ45 cable, turn off the power om the PC, the GDM-8261 (A) or the router when e new firmware is being programmed into the nernet card.
15	"Program Complete" will be displayed when programming has been completed. IEXAS INSI KUIVIEN IS Program Complete - 143704 Bytes Programmed
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 19 Version	Start the Web Control Interface (please see the user manual for details) by entering the Ethernet IP address into a Java-enabled web browser.

20. Click the "View & Modify Configuration" icon to see if the firmware update was successful.

\sim	Name:	GW8261-EI555555
1	Firmware Revision:	0.92
	IP Address:	172.16.20.80
	MAC Address:	00-1a-b6-00-02-74
Welcome Page	Address Selection	
Welcome Page	Address Selection	DHCP/AwtoP •
Welcome Page	Address Selection Address Type: Static IP Address:	DHCP/AuscP •
Webcome Page Web Control Web Control Visu & Modify Configuration	P Address Selection Address Type: Static IP Address: Subnet Mask:	DHCPAuxDP • 192 [168], 0 . 1 255 [255], 255], 0
Webcome Page	P Address Selection Address Type: Static IP Address Subnet Mask: Default Gateway:	DHCPManoP = 102 . [68 . 0 . 1 25 . 255 . 0 102 . 168 . 0 . 24

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