

Grayhill DuraMaxHG

Upgrading the DuraMax HG Operating System And Bootloader



Grayhill Part Number:

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Audience

This manual provides a procedure to upgrade the Operating System on a DuraMaxHG -based device. The information it provides is intended for qualified electrical personnel familiar with installing, programming, and maintaining industrial networks and industrial automation.

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Introduction

This document will specify the procedure for upgrading an existing DuraMax based product to a different Operating System than what it is currently running. This instruction-set may be used to upgrade or downgrade operating systems on the device. Please advise your Grayhill sales or support representative to ensure that you are using the appropriate operating system for your needs.

Components Needed

Table 1. Components Needed

1 Compact Flash Card



WARNING: An OS upgrade involves formatting the FLASH Disk. Backup all of your data prior to performing the update. All data will be lost.

Preparing the Device

1. Current Operating System Version

Prior to upgrading your device please make a note of the current version of the Operating System. The version and build date can be found via the *start/control panel/platform* applet.

Current Version of Operating System: _____

Current Build Date of Operating System: _____

2. Current Bootloader version

Prior to upgrading your device please make a note of the current version of the Bootloader. The version and build date can be found via the *start/control panel/platform* applet.

Current Version of Operating System: _____

Current Build Date of Operating System: _____

Ensure AC Power

Attach the AC adapter to the Handheld's external power port, then connect the power cord to an electrical outlet. Since the upgrade process takes some time, it is recommended that the process is performed while the device is powered to ensure that the process proceeds uninterrupted.



WARNING: Use only a Grayhill-approved AC adapter with the Handheld or the Handheld dock. Use of another AC adapter may cause a fire or an explosion. Always connect the AC adapter first to the Handheld or Handheld dock. Use the AC adapter with a properly grounded supply to avoid electrical shock. Before plugging the power cord into the wall socket, make sure its voltage and frequency match that of the AC adapter. If using an extension cord with the provided AC adapter, make sure the total current rating of the product does not exceed the current rating of the extension cord.

2. Open the CF/SD Access Door

In order to upgrade the Operating System access to the CF Card Slot is required. Remove the two (2) screws securing the CF/SD Card Slot cover on the top of the device.



3. Copy files to CF Card

The following files need to be copied to the CF card:

DmaxHG.BIN
BLupdate.EXE
EBOOT.NB0

NOTE: Some or all files may need to be uncompressed or un-zipped first.

4. Insert the CF Card CF Card Slot

Inserting the CF Card/PC Card combination into the device

Insert the CF Card-PC Card combination into the PC Card Slot.



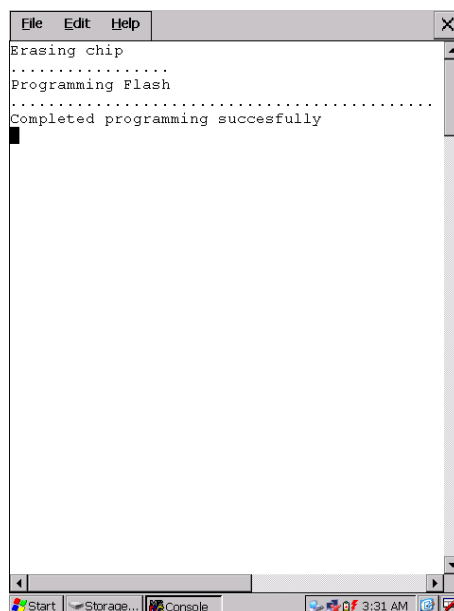
Make sure that the CF Card is completely inserted. This can be verified by checking the device recognizes the CF Card and mounts it as “/Storage Card” in MyDevice.

5. Updating the Bootloader

Run the bootloader programmer utility

From MyDevice/Storage Card/

Run (Double Click) on blupdate.exe. A Status window will appear while running. Do not disconnect power at this point. A power interruption may corrupt the device. After the programming is successful the window will disappear.



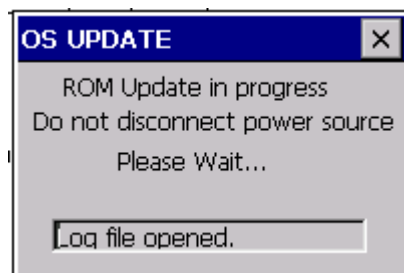
6. Resetting

Press and hold down the power button for approximately 10 seconds or until unit begins to reboot. This will reset the device and the upgrade process will begin.



The upgrade process can take some time so please be patient. (Typically about 2-3 minutes).

During the upgrade process a window like the one shown below will appear.



Upon completing the upgrade process the device will boot with the Windows CE desktop present.

Remove the CF Card from the slot and secure the cover plate with the two (2) screws.

To ensure that the update was applied successfully press and hold down the power button for approximately 10 seconds or until unit begins to reboot

Verify that the version and build date have has been updated from the original version number and build date which were noted in step #1 of this guide.

Troubleshooting

- If the update of the OS did not work your unit may have trouble recognizing the brand of CF card that you are using. You can try to manually update the unit by the following steps. Insert CF card into the CF Card slot and ensure it is recognized under MyDevice as "Storage Card". Execute the nkupdate.exe located in the windows directory under MyDevice. Remove the CF Card from the slot and secure the cover plate with the two (2) screws. To ensure that the update were applied successfully press and hold down the power button for approximately 10 seconds or until unit begins to reboot. Verify that the version and build date have been updated from the original version number and build date which were noted in step #1 of this guide.
- If the device does not boot correctly after an upgrade then remove the PC Card and reboot the device by pressing and holding down the power button for approximately 10 seconds or until unit begins to reboot.