



PowerFlex 4-Class Human Interface Module Series A Firmware v2.006

This release note describes major revision 2, minor revision 6 of firmware for the following:

- 22-HIM-A3 Series A
- 22-HIM-C2S Series A

Introduction

The following information is included in this document:

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Enhancements

This section describes the enhancement provided in this revision of firmware:

- Slowed down the scrolling speed of the up/down buttons that vary the speed Reference to reduce overshooting the desired value.

Corrected Anomalies

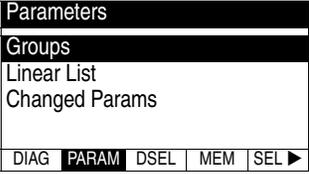
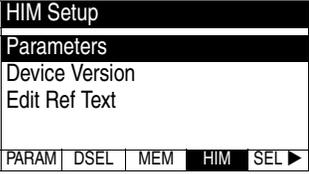
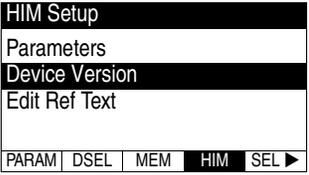
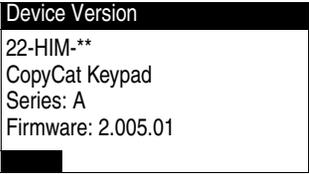
This section describes the anomaly corrected in this revision of firmware:

- The HIM's larger display (selected with ALT + Display key presses) now dynamically tracks Hz speed reference values when HIM parameter 006 - [Large Disp Param] is set to "0."

Determining Firmware Revision

This section describes procedures to determine the firmware revision of your external 22-HIM-*** module.

Using the External LCD HIM (22-HIM-**)

| Step | Key(s) | Example Screens |
|---|---|---|
| 1. Power up the drive. Then plug the HIM into the drive. The Parameters menu for the <u>drive</u> will be displayed. | |  |
| 2. Press Sel key until the HIM Setup menu is displayed. |  |  |
| 3. Press Down Arrow to scroll to Device Version , and then press Enter. |  and  |  |
| 4. The present firmware version of the HIM is shown on the Firmware line. | |  |

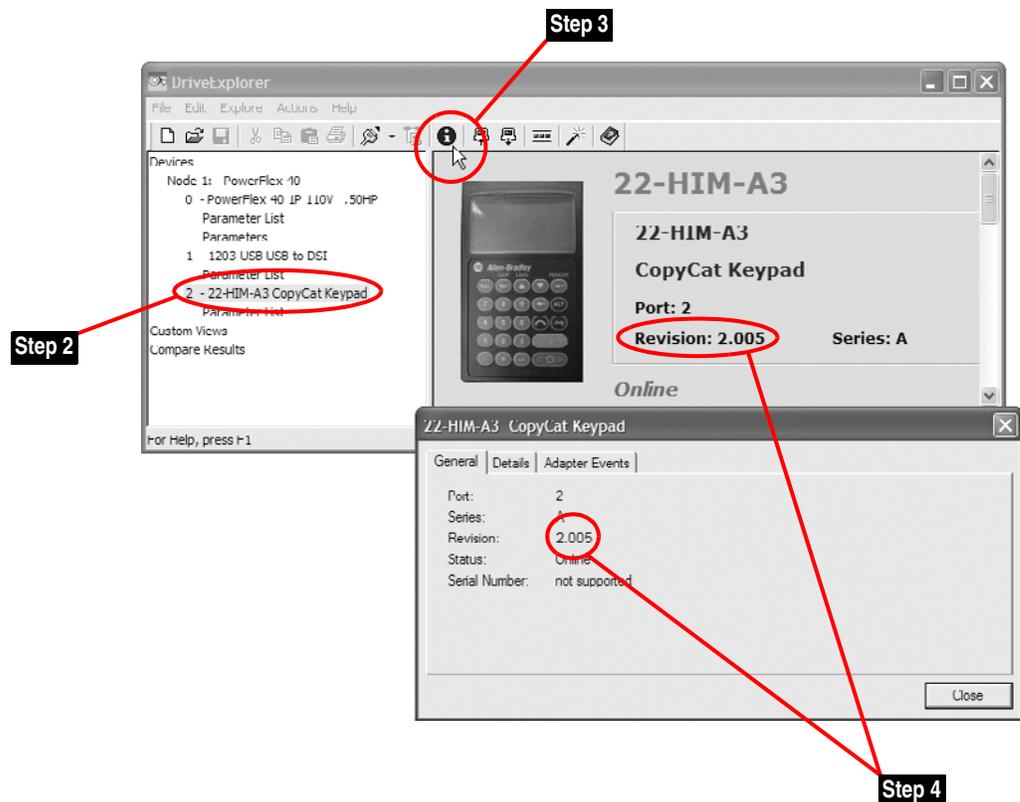
Using DriveExplorer Lite/Full

1. Launch DriveExplorer and go online (via 1203-USB or 22-SCM-232 converter) with the drive that is connected to the HIM. As an alternative when using DriveExplorer Full, you can go online with the drive on Ethernet through a connected 22-COMM-E communication adapter.
2. In the DriveExplorer treeview, click on the 22-HIM-** as shown in [Figure 1](#).
3. Click the information icon to display the HIM's Properties screen.
4. The "Revision:" field shows the present revision (for example, 2.005) of the HIM firmware.



TIP: When clicking on the 22-HIM-** using version 5.01 or higher DriveExplorer Lite/Full, the HIM firmware revision is also shown in the right pane of the DriveExplorer window.

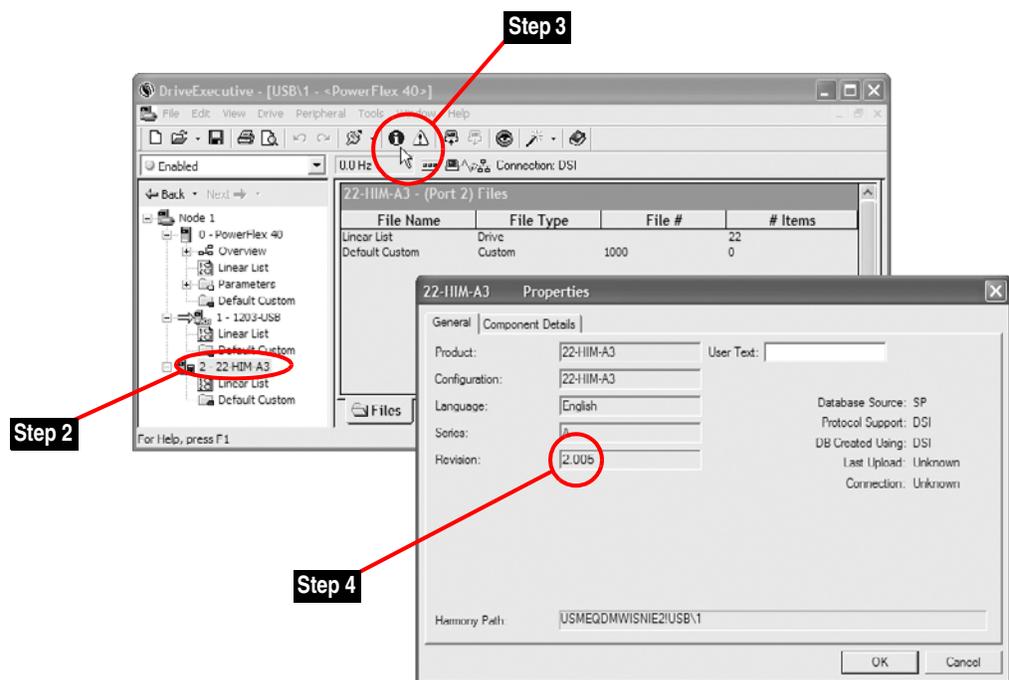
Figure 1 Information Icon in DriveExplorer Window



Using DriveExecutive

1. Launch DriveExecutive and go online with the drive that is connected to the HIM.
2. In the DriveExecutive treeview, click on the 22-HIM-** as shown in [Figure 2](#).
3. Click the information icon to display the HIM's Properties screen.
4. The "Revision:" field shows the present revision (for example, 2.005) of the HIM firmware.

Figure 2 Information Icon in DriveExecutive Window



Firmware Flashing

This section describes procedures to flash upgrade your HIM firmware. Flash kits for drives, communications adapters, and peripherals are provided on the Allen-Bradley Web Updates site located at <http://www.ab.com/support/abdrives/webupdate>.



ATTENTION: Risk of permanent equipment damage exists. Once a flash update has been started, do not remove power from the drive until after the download has completed and the HIM has re-initialized with the connected drive. If power is removed before this occurs, the HIM may be permanently damaged. A HIM that has been damaged in this way cannot be repaired.

Installing the Flash Kit

1. Install the flash kit utility from the Allen-Bradley Web Updates site for the 22-HIM-** module. (This also automatically installs the latest version of the ControlFLASH utility on your computer.)
2. You are now ready to use DriveExplorer, DriveExecutive, ControlFLASH, or HyperTerminal to update the module. Follow the instructions in the appropriate section below.

Using DriveExplorer Lite/Full

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExplorer and go online (via 22-SCM-232 or 1203-USB converter) with the drive that is connected to the 22-HIM-** module.
2. In the DriveExplorer treeview, click on 22-HIM-**. Then click the information icon as shown in [Figure 1](#) to display the HIM's properties screen.
3. On the 22-HIM-** properties screen, click the Details tab.

Important: This update may cause the HIM parameters to revert to their default values. You may want to save your configuration using DriveExplorer or the HIM CopyCat feature before upgrading.

4. To start the flash update, click the **Flash Update...** button. Follow the screen prompts until the flash update procedure completes and displays the new firmware revision (v2.006).

Using DriveExecutive

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExecutive and go online with the drive that is connected to the 22-HIM-**.
2. In the DriveExecutive treeview, click on 22-HIM-**. Then click the information icon as shown in [Figure 2](#) to display the HIM's Properties screen.
3. On the 22-HIM-** Properties screen, click the Component Details tab.

Important: This update may cause the HIM parameters to revert to their default values. You may want to save your configuration using DriveExecutive or the HIM CopyCat feature before upgrading.

4. To start the flash update, click the **Flash Update** button. Follow the screen prompts until the flash update procedure completes and displays the new firmware revision (v2.006).

Using ControlFLASH

1. With the Flash Kit installed (see [Installing the Flash Kit on page 5](#)), launch ControlFLASH by selecting **Start > (All) Programs > Flash Programming Tools > ControlFLASH**.
2. Choose the 22-HIM-** v2.006 update from the list of available updates.
Important: This update may cause the HIM parameters to revert to their default values. You may want to save your configuration using the HIM CopyCat feature, DriveExplorer or DriveExecutive before upgrading.
3. Follow the screen prompts until the flash procedure completes and displays the new firmware revision (v2.006).

Using HyperTerminal

1. With the Flash Kit installed (see [Installing the Flash Kit on page 5](#)), launch HyperTerminal and, using a 22-SCM-232 or 1203-USB converter, go online with the drive that is connected to the 22-HIM-** module.
2. Press the **Enter** key until the main menu ([Figure 3](#)) appears.

Figure 3 Main Menu

```
Main Menu - Enter Number for Selection
1> Display Setup Parameters
2> Display Event Queue
3> Flash Upgrade
```

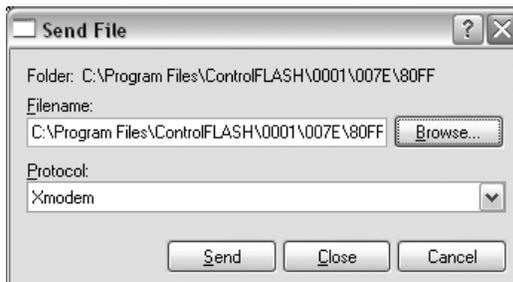
3. In the main menu, press **3** to flash upgrade. Then press **2** to select the 22-HIM-**, and press **Y** (for Yes) to update the flash code. The terminal program will start displaying the letter “C”. This signals the XMODEM protocol that the download may proceed. You then have one minute to start the transfer. Press **CTRL-X** to cancel an update started by mistake.



ATTENTION: Risk of injury or equipment damage exists. When you perform a flash update, the drive will fault if it is receiving control I/O from the 22-HIM-** module. Verify that the drive has stopped safely or is receiving control I/O from an alternate source before beginning a flash update.

4. Select **Transfer > Send File** to display the Send File screen ([Figure 4](#)).

Figure 4 Send File Screen



5. Click **Browse** and navigate to the flash file located in:

C:\Program Files\ControlFLASH\0001\007E\80FF

6. Double-click only the “22-HIM-A3_APP_2_006_01.bin” file. Its name appears in the Filename box (see [Figure 4](#)).
7. In the Protocol box, select “Xmodem.”

8. Click **Send**. A dialog box appears and reports the progress of the update. When it is complete, the message “Operation Complete” appears. HyperTerminal also checks the new firmware in the module and resets the module.

Important: Keep the 22-HIM-** powered for 15 seconds after the operation has completed or until the HIM has re-initialized with the drive.

9. Press the **Enter** key to return to the main menu.

Restrictions

No restrictions apply to this revision of firmware.

Compatible Revisions

To use this revision of firmware, update your system tools as follows:

| Update this: | To this version or later: |
|--------------------------------|---------------------------|
| DriveExplorer Lite/Full | 4.01 |
| DriveExecutive | 3.01 |
| PowerFlex 4-Class Drive | all versions compatible |
| External LCD HIM (22-HIM-**)) | all versions compatible |
| RSLinx Classic | 2.51 |

Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using our products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of Frequently Asked Questions (FAQs), technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

Rockwell Automation also provides complimentary phone support for drives, communication adapters, and peripherals. If you experience a problem with the HIM, please review the information in its User Manual. For further help in getting your HIM operational, contact a Customer Support representative:

| | |
|-----------------------|--|
| United States | (1) 262.512.8176 Monday – Friday, 7am – 6pm CST |
| Outside United States | Please contact your local Rockwell Automation representative for any technical support issues. |

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Product Satisfaction Return

Rockwell Automation tests all products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned:

| | |
|-----------------------|--|
| United States | Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor to complete the return process. |
| Outside United States | Please contact your local Rockwell Automation representative for return procedure. |

U.S. Allen-Bradley Drives Technical Support - Tel: (1) 262.512.8176, Fax: (1) 262.512.2222, Email: support@drives.ra.rockwell.com, Online: www.ab.com/support/abdrives

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