



PowerFlex 20-HIM-A6 and 20-HIM-C6S HIM Firmware Revision 1.006

This release note describes major revision 1, minor revision 6 of firmware for PowerFlex 20-HIM-A6 and 20-HIM-C6S HIMs (Human Interface Modules).

Introduction

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Enhancements

This section describes the enhancements provided in this revision of firmware.

- Fault lists that are accessed from the Diagnostic folder now display in Asian languages.
- Added the ability to reset the Process display setup to the Host device's default parameters, scaling, and text. A RESET 'soft key' is now present on the Process display set up screen.
- Added Parameter Access Level to the Device Parameter folder of the Host device. This selection allows the parameter access level to be changed without having to navigate to the correct parameter to change the access level.
- Simplified Indirect Selector data entry by adding the name of the parameter being modified to the top line of the pop-up box (prompt now appears on second line of pop-up box).
- HIM now supports Reliance Electric and VTAC-branded drives.
- Improved access to the Parameter screen. Pressing the **5** (Enter) key on the Status screen now directly displays the Parameter screen.
- Pressing the ESC 'soft key' from the time zone list now displays the time zone groups list.
- Improved update speed of information on the Process screen.
- Changed the logic for displaying the soft keys when starting data entry so that the decimal point 'soft key' is always displayed first. After

pressing the decimal point ‘soft key’ during data entry, it then changes into the EXP ‘soft key’ when a value needs to be entered using scientific notation.

- The  (Control Bar) key and the  (Folder) key are now inactive at all times during drive Start Up.

Corrected Anomalies

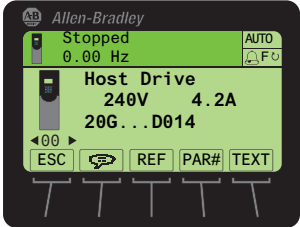
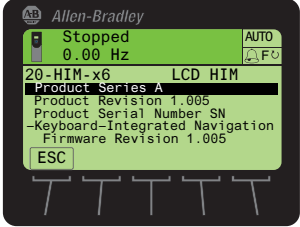
This section describes the anomalies corrected in this revision of firmware:

- HIM CopyCat feature now supports storing of DeviceLogix information.
- Device bitmaps are now displayed correctly when scrolling through the Status screen at a fast rate.
- Drive no longer stops when a CopyCat Device To HIM function is performed.
- Negative signed DWORD values can now be entered.
- Language pop-up box is not displayed again after a language was already selected.
- Improved keypad routines for menu functions so that key presses are not lost.
- Added the proper units to HIM Parameter 7 - [User Dspy Time].
- Corrected problem when displaying three or more lines of selection text while in drive Start Up.

Determining Firmware Revision

This section describes procedures to determine the firmware revision of your PowerFlex 20-HIM-A6 or 20-HIM-C6S HIM.

Using the 20-HIM-A6 or 20-HIM-C6S HIM

Step	Example Screens
1. Access the HIM Status screen, which is displayed on HIM power up. 2. Use the  or  key to scroll to the drive Port in which the HIM is connected (for example, Port 1). 3. Press the  key to display its last-viewed folder. 4. Use the  or  key to scroll to the DIAGNOSTIC folder. 5. Use the  or  key to select Device Version. 6. Press the  (Enter) key to display device version information.	 

Using DriveExplorer Lite/Full Software

1. Launch DriveExplorer software.
2. Using a 1203-USB or 1203-SSS converter, go online with the drive that is connected to the HIM.

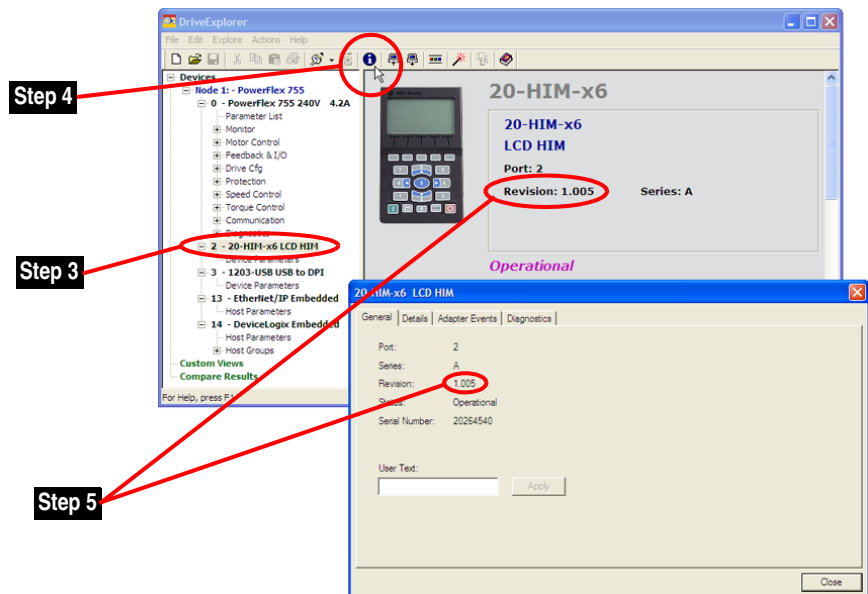
As an alternative when using DriveExplorer Full software, you can go online with a PowerFlex 755 drive on Ethernet through its embedded EtherNet/IP communication adapter, or a PowerFlex 753 drive through its 20-750-ENETR option module.

3. In the DriveExplorer treeview, select the 20-HIM-x6 LCD HIM (see [Figure 1](#)).
4. Click the information icon  to display the HIM Properties screen.
5. The 'Revision' field shows the present revision of the HIM firmware (for example, 1.005).



TIP: When selecting the 20-HIM-x6 LCD HIM, the HIM firmware revision is also shown in the right pane of the DriveExplorer window.

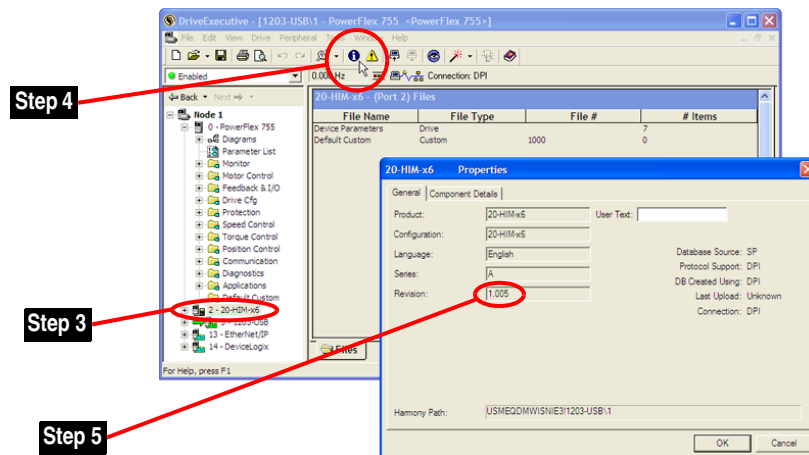
Figure 1 DriveExplorer Window with Information Icon and Device Properties



Using DriveExecutive Software

1. Launch DriveExecutive software.
2. Using a 1203-USB or 1203-SSS converter, go online with the drive that is connected to the HIM.
3. In the DriveExecutive treeview, select the 20-HIM-x6 (see [Figure 2](#)).
4. Click the information icon  to display the HIM Properties screen.
5. The 'Revision' field shows the present revision of the HIM firmware (for example, 1.005).

Figure 2 DriveExecutive Window with Information Icon and Device Properties



Updating the Firmware

This section describes procedures to update the HIM firmware. Flash kits for drives, communication adapters, and peripherals are provided on the Allen-Bradley Web Updates site at <http://www.ab.com/support/abdrives/webupdate>. Updating can be performed using a 1203-USB or 1203-SSS converter. For information about how to connect to your drive, see their respective User Manual. They can be viewed/downloaded on the Literature Library website at <http://www.literature.rockwellautomation.com>.



ATTENTION: Risk of permanent equipment damage exists. Once an 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. Go to the Allen-Bradley Web Updates site at <http://www.ab.com/support/abdrives/webupdate> and install the flash kit for the 20-HIM-A6 or 20-HIM-C6S HIM, which also automatically installs the ControlFLASH software on your computer.

2. You are now ready to use DriveExplorer, DriveExecutive, ControlFLASH, or HyperTerminal software to update the HIM. See the respective section below and follow the instructions.

Using DriveExplorer Lite/Full Software to Update Firmware

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExplorer software.
2. Using a 1203-USB or 1203-SSS converter, go online with the drive that is connected to the HIM.
3. In the DriveExplorer treeview, select the 20-HIM-x6 LCD HIM.
4. Click the information icon  (see [Figure 1](#)) to display the HIM Properties screen.
5. On the 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 software or the HIM CopyCat feature before updating.

6. Click Flash Update to start the update.
7. Select '1.006.xx [language]' from the list of available updates.
8. Click Next >.
9. Follow the remaining screen prompts until the update procedure completes and displays the new firmware revision 1.006.

Using DriveExecutive Software to Update Firmware

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExecutive software.
2. Using a 1203-USB or 1203-SSS converter, go online with the drive that is connected to the HIM.
3. In the DriveExecutive treeview, select the 20-HIM-x6 HIM.
4. Click the information icon  (see [Figure 2](#)) to display the HIM Properties screen.
5. On the 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 software or the HIM CopyCat feature before updating.

6. Click Flash Update to start the flash update.
7. Select the 20-HIM-x6 from the list of available devices.
8. Click Next >.
9. Select '1.006.xx [language]' from the list of available updates.

10. Click Next >.
11. Follow the remaining screen prompts until the update procedure completes and displays the new firmware revision 1.006.

Using ControlFLASH Software to Update Firmware

1. With the Flash Kit installed (see [Installing the Flash Kit on page 4](#)), choose Start > (All) Programs > Flash Programming Tools > ControlFLASH to launch the ControlFLASH software.
2. On the ControlFLASH Welcome screen, click Next >.
3. Choose the appropriate 20-HIM-x6 via [connection type] update from the list of available updates.
4. Click Next >.

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, or DriveExplorer or DriveExecutive software before updating.

5. Expand the treeview for the communication path you are using, and select the drive icon that represents the drive connected to the HIM you are updating.
6. Click OK.
7. If the Multiple Assemblies Found window appears, select 'Port X - 20-HIM-x6' from the list and click OK. If this window does not appear, proceed with step 8.
8. With the Firmware Revision window displayed, select '1.006.xx [language]' from the list of available updates.
9. Click Next >.
10. Follow the remaining screen prompts until the update procedure completes and displays the new firmware revision 1.006.

Using HyperTerminal Software to Update Firmware

1. With the Flash Kit installed (see [Installing the Flash Kit on page 4](#)), launch HyperTerminal software.
2. Using a 1203-USB or 1203-SSS converter, go online with the powered drive that is connected to the HIM.
3. Press Enter until the main menu appears.

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Main Menu - Enter Number for Selection
1> Display Setup Parameters
2> Display Event Queue
3> Flash Upgrade
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4. In the main menu, press '3' to flash upgrade.
5. Press the number key that corresponds to the '20-HIM-x6' in the list.

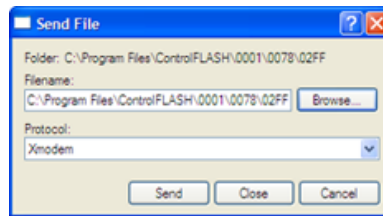
6. Press 'Y' (for Yes) to update the firmware.

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.



ATTENTION: Risk of injury or equipment damage exists. When you perform an update, the drive will fault if it is receiving control I/O. Verify that the drive has stopped safely before beginning an update.

7. From the Transfer menu, choose Send File to display the Send File screen.



- A. Click Browse.
- B. Navigate to the flash file located in C:\Program Files\ControlFLASH\0001\0078\02FF.
- C. In the Select File to Send window list, select the '20HIMx6 BOOT 1.006.07.bin' file.
- D. Click Open.

This file name now appears in the Filename box in the Send File screen.

- E. From the Protocol pull-down menu, choose 'Xmodem'.
- F. Click Send.

A dialog box appears and reports the update progress. When complete, a 'Flash Complete' message appears. Press any key to continue.

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



TIP: To cancel the update at any time, press Ctrl-X.

8. Repeat steps 3 through 7 for the '20HIMx6 APP 1.006.07 [language].bin' file.
9. Press Enter 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 tools and devices as needed.

Tool/Device	Version Required
DriveExplorer Lite/Full software	6.01 or later
DriveExecutive software	5.01 or later
PowerFlex 7-Class drive	all versions compatible
PowerFlex 750-Series drive	all versions compatible
RSLinx Classic software	2.43 or later

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 a device, please see the information in its User Manual. For further help in getting your device 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, TechConnect Support programs are available. For more information, contact your local distributor, a 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, follow the steps below.

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	Contact your local Rockwell Automation representative for the 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

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846