



1203-USB Converter Firmware v1.004

This release note describes major revision 1, minor revision 4 of firmware for the 1203-USB converter.

Important: Any firmware version lower than v1.002 must first be flash updated to firmware version v1.002. Then, the firmware can be flash updated again to any firmware version 1.003 or higher.

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:

- In DSI mode, added support for Serial-to-Network DriveExplorer connections to PowerFlex 750-Series drives.

Corrected Anomalies



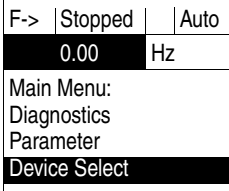




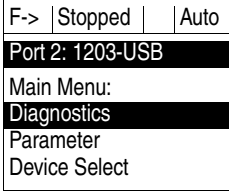






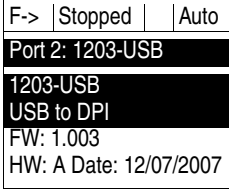

This section describes the anomalies corrected in this revision of firmware:

- In DSI mode, corrected an issue that prevented the 1203-USB from operating correctly when Parameter 01 - [Adapter Cfg] is set to “3” (RTU Master).
- In DPI mode, corrected an issue that caused the 1203-USB to stop communicating on DPI when connected to a PowerFlex 750-Series drive during a flash update of another device.
- In DPI mode, corrected an issue that caused the Reference and Feedback diagnostic items to be displayed incorrectly when connected to a drive supporting 32-bit Reference/Feedback.
- In DPI mode, corrected an issue that prevents connecting to a PowerFlex 750-Series drive using DriveExplorer when the bit corresponding to the 1203-USB in the drive's Write Mask Act parameter is turned off.

Determining Firmware Revision

This section describes procedures to determine the firmware revision of your 1203-USB converter.

Using the LCD HIM (20-HIM-**)

Step	Key(s)	Example Screens
1. In the Main Menu, press the Up Arrow or Down Arrow to scroll to Device Select .	 or 	
2. Press Enter to enter your selection.		
3. Press the Up Arrow or Down Arrow to scroll to the 1203-USB converter.	 or 	
4. Press Enter to select the serial converter. The main menu for the converter will appear.		
5. Press the Up Arrow or Down Arrow to scroll to Diagnostics .	 or 	
6. Press Enter to enter your selection.		
7. Press the Up Arrow or Down Arrow to scroll to Device Version .	 or 	
8. Press Enter to display the Product Data screen.		
9. Press Enter again to display the converter's firmware version.		

Using HyperTerminal

1. Launch HyperTerminal and, using a 1203-SFC cable, go online with the 1203-USB converter that is connected to the powered drive. For information on how to go online using HyperTerminal, please refer to the *1203-USB Converter User Manual* (publication DRIVES-UM001).
2. Press the **Enter** key until the main menu ([Figure 1](#)) appears.

Figure 1 Main Menu

```

USB to DPI Communications Module, Revision 1.003 Build 6
Main Menu - Enter Number for Selection
1> Display Setup Parameters
2> Display Event Queue
3> Flash Upgrade
    
```

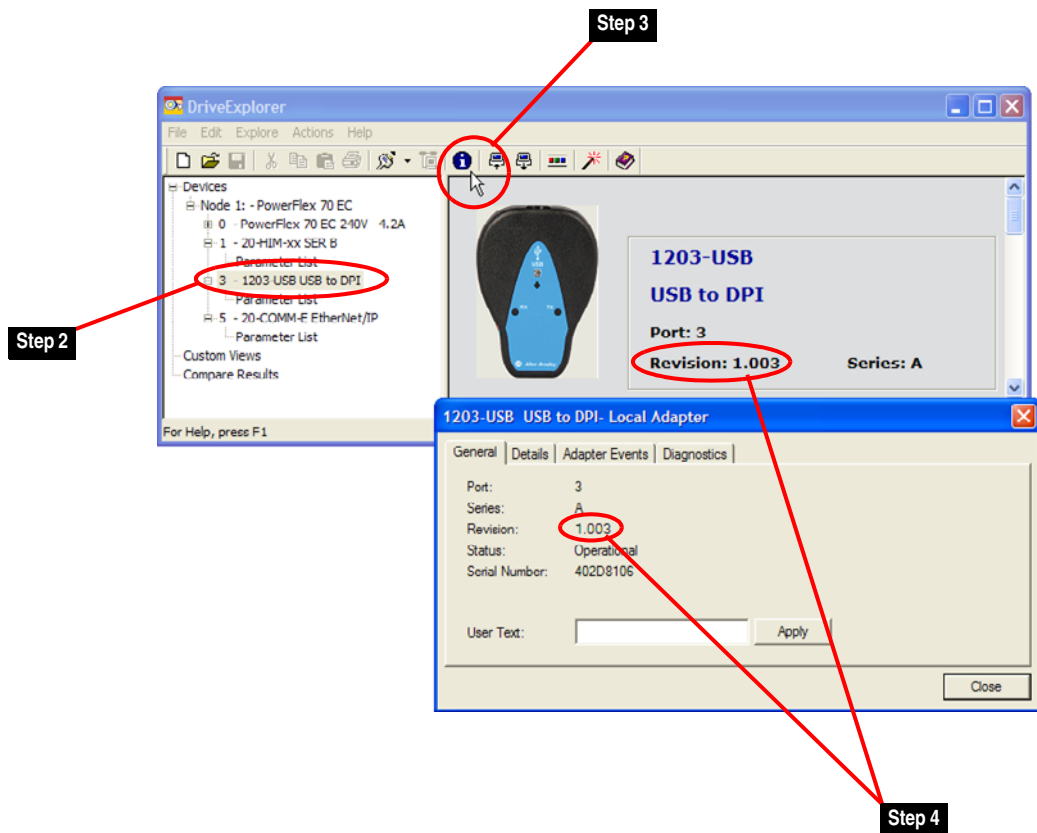
Using DriveExplorer Lite/Full

1. Launch DriveExplorer and go online with the drive that is connected to the 1203-USB converter.
2. In the DriveExplorer treeview, click on 1203-USB as shown in [Figure 2](#).
3. Click the information icon to display the converter's properties screen.
4. The "Revision:" field shows the present revision (for example, 1.003) of the converter firmware.



TIP: When clicking on the 1203-USB converter using version 5.01 or higher DriveExplorer Lite/Full, the converter firmware revision is also shown in the right pane of the DriveExplorer window.

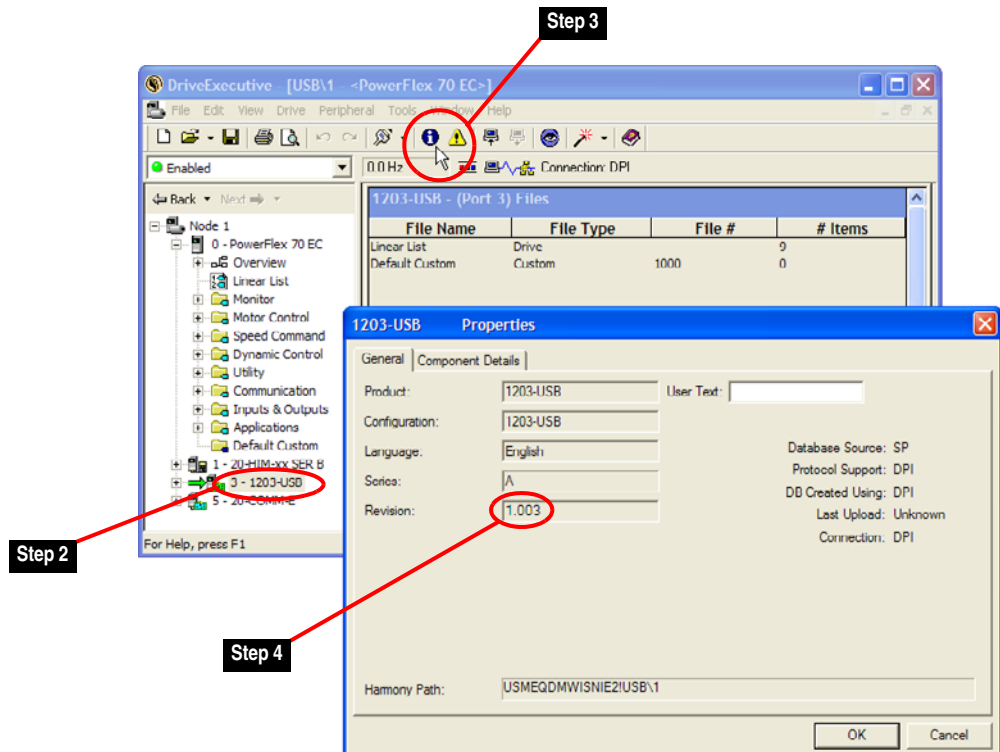
Figure 2 Information Icon in DriveExplorer Window



Using DriveExecutive

1. Launch DriveExecutive and go online with the drive that is connected to the 1203-USB converter.
2. In the DriveExecutive treeview, click on 1203-USB as shown in [Figure 3](#).
3. Click the information icon to display the converter's Properties screen.
4. The "Revision:" field shows the present revision (for example, 1.003) of the converter firmware.

Figure 3 Information Icon in DriveExecutive Window



Firmware Flashing

This section describes procedures to flash upgrade your converter 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 1203-USB's diamond-shaped LED status indicator becomes FLASHING GREEN. If power is removed before this occurs, the 1203-USB may be permanently damaged. A 1203-USB that has been damaged in this way cannot be repaired.

Important: Any firmware version lower than v1.002 must first be flash updated to firmware version v1.002. Then, the firmware can be flash updated again to any firmware version 1.003 or higher.

Installing the Flash Kit

1. Install the flash kit utility from the Allen-Bradley Web Updates site for the 1203-USB serial converter. (This also automatically installs the latest version of the ControlFLASH utility and deploys the firmware files for use with HyperTerminal on your computer.)
2. You are now ready to use DriveExplorer, DriveExecutive, ControlFLASH or HyperTerminal to update the converter. Refer to the respective section below and follow the instructions.

Using DriveExplorer Lite/Full

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

Important: This update may cause the 1203-USB 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. Then select v1.004.xx from the list of available updates and click **Next >**. Follow the remaining screen prompts until the flash update procedure completes and displays the new firmware revision (v1.004).

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 1203-USB converter.
2. In the DriveExecutive treeview, click on the 1203-USB converter. Then click the information icon as shown in [Figure 3](#) to display the converter's Properties screen.
3. On the 1203-USB Properties screen, click the Component Details tab.

Important: This update may cause the 1203-USB 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. Then select the 1203-USB from the list of available devices and click **Next >**.

5. Select “1.004.xx” from the list of available updates and click **Next >**. Follow the remaining screen prompts until the flash update procedure completes and displays the new firmware revision (v1.004).

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. On the ControlFLASH Welcome screen, click **Next >**.
3. Choose the 1203-USB from the list and click **Next >**.

Important: This update may cause the 1203-USB parameters to revert to their default values. You may want to save your configuration using the HIM CopyCat feature, DriveExplorer or DriveExecutive before upgrading.

4. Expand the treeview for the communication path you are using, and select the icon that represents the drive connected to the 1203-USB you are updating. Then click **OK**.
5. With the Multiple Assemblies Found window displayed, select “Port X - 1203-USB” from the list and click **OK**.
6. With the Firmware Revision window displayed, select “1.004.xx” from the list of available updates and click **Next >**. Follow the remaining screen prompts until the flash procedure completes and displays the new firmware revision (v1.004).

Using HyperTerminal

1. With the Flash Kit installed (see [Installing the Flash Kit on page 5](#)), launch HyperTerminal and, using a 1203-SFC cable, go online with the powered drive that is connected to the 1203-USB converter.
2. Press the **Enter** key until the main menu ([Figure 4](#)) appears.

Figure 4 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 the number key that corresponds to the “1203-USB” in the list, 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.

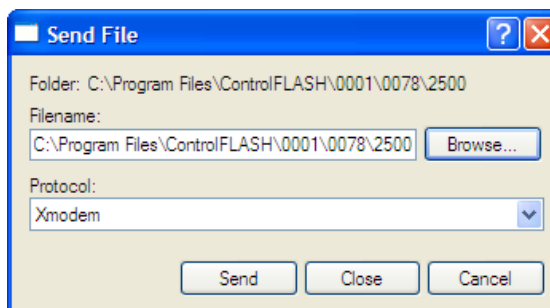


ATTENTION: Risk of injury or equipment damage exists. When you perform a flash update, the drive will fault if it is receiving control I/O via the 1203-USB. Verify that the drive has stopped safely or is receiving control I/O from an alternate source before beginning a flash update.

4. Select **Transfer > Send File** to display the Send File screen ([Figure 5](#)).
5. Click **Browse** and navigate to the flash file located in:

C:\Program Files\ControlFLASH\0001\0079\2500

Figure 5 Send File Screen



6. In the treeview, double-click on the “1203-USB_1_004_02_Boot.bin” file. Then click **Open**. This file name now appears in the Filename box in the Send File screen.
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 “Flash Complete” appears.

Important: Keep the device powered for 15 seconds after the operation has completed or until the 1203-USB’s diamond-shaped LED status indicator starts flashing green.



TIP: To cancel a flash update at any time, press **CTRL-X**.

9. Repeat steps 2 through 8 for the “1203-USB_1_004_02_Combio.bin” file. Press the **Enter** key to return to the main menu which should now show the new firmware revision of 1.004 followed by its build level.

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 or 7-Class Drive	all versions compatible
Legacy SCANport Drive	all versions compatible
LCD HIM	all versions compatible
RSLinx Classic	2.43

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 1203-USB converter, please review the information in its User Manual. For further help in getting your converter 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.

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