



Version 2.07 Firmware Upgrade for PowerFlex[®] 700S Drives with Phase I Control

What You Need

- A personal computer with HyperTerminal software
- Bulletin 1203-SS Smart Self-powered Serial Converter (firmware version 3.004 or higher)
- PowerFlex 700S Phase I binary files
 - Application: 700SapP02_07.bin

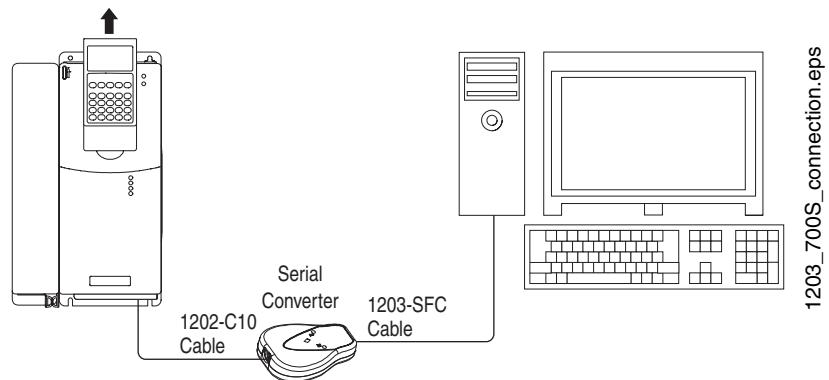
What You Need to Do

To upgrade the PowerFlex 700S drive:

- Step 1: Connect the computer to the drive
- Step 2: Start the HyperTerminal program and
- Step 3: Download the Application file to the drive
- Step 4: Verify firmware revision
- Step 5: Document the revision change

Step 1: Connecting the Computer to the Drive

Connect a serial port of the computer to a DPI port on the drive through the 1203-SSS converter.



Important: You must disable any RSLinx RS-232 DF1 devices during the upgrade process, because they may interfere with the upgrade.

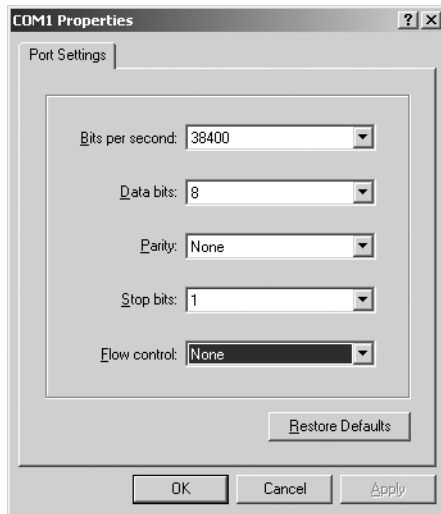
Important: You must remove the HIM during the upgrade process, because it may interfere with the upgrade.

Step 2: Configuring the HyperTerminal Connection

1. Start HyperTerminal
2. When the Connection Description dialog opens, you are prompted to enter the name of the new connection. Enter a name and click OK.
3. When the Connect to dialog opens, change Connect using to Direct to COM1. Then Click OK to continue.



sss01.eps

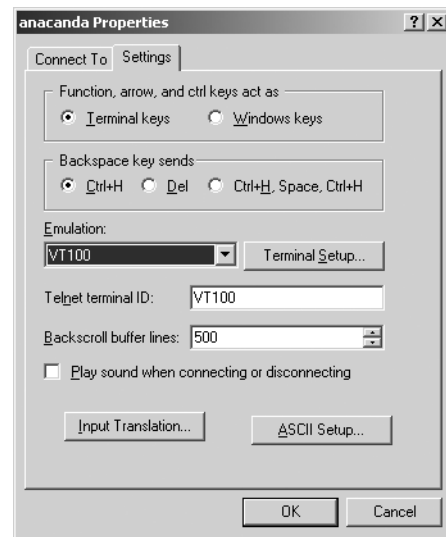


sss02.eps

4. When the COM1 Properties dialog opens, use these settings:
 - Bits per second = the baud rate / data rate setting of your DPI serial adapter
 - Data bits = 8
 - Parity = None
 - Stop bits = 1
 - Flow control = None

Click OK.

5. When the main window for HyperTerminal appears, select Properties from the File menu.
6. Select the Settings tab. On the Settings tab, set Emulation to VT100. Click OK.
7. Press the Esc key on your keyboard to call up the main menu in the serial adapter. (If you see non-readable characters, you have selected the wrong data rate and need to start over at step 1.)



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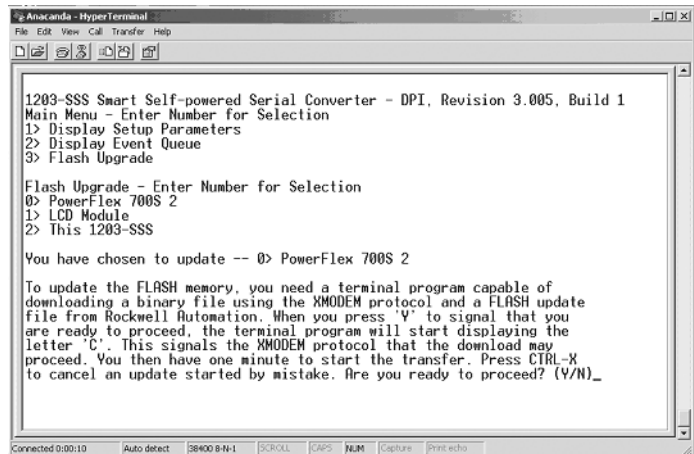
Step 3: Downloading the Application File



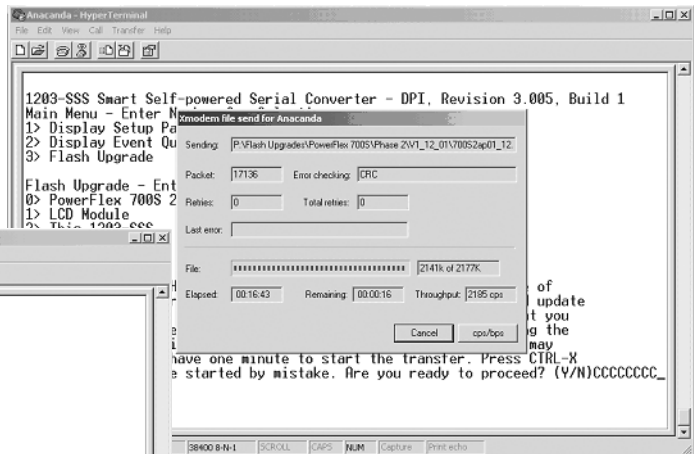
ATTENTION: Once a flash upgrade has been started, do not remove power from the drive until after the download process has completed. If power is removed before the download process completes, the device being flashed may potentially become damaged.

1. Press the 3 key to select Flash Upgrade.
2. Press the 0 key to select PowerFlex 700S.
3. From the Transfer menu, select Send File.
4. When the Send File dialog opens, change the Protocol to Xmodem.
5. Click the Browse button to locate the file to be transferred. Locate the Boot file (700SapP02_07.bin). Click Open to select the file. Click Send to start the download process.

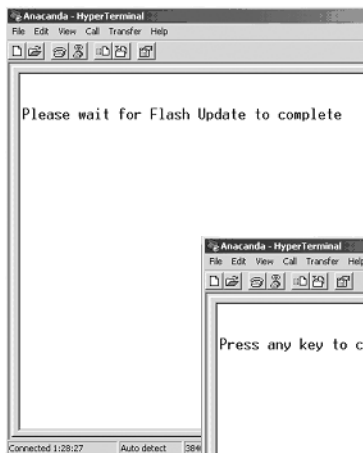
sss04.eps



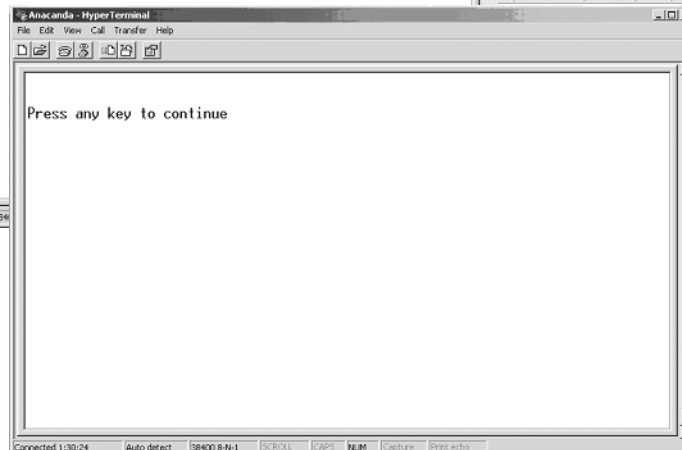
6. Wait while the file transfer occurs (about 25 minutes).
7. Wait while the Flash Update occurs (about 120 seconds).



sss08.eps



sss06.eps



sss07.eps

8. Press any key when the Flash Update is complete.

Step 4: Verify the Firmware Revision Change

View the following parameters and verify that they indicate firmware revision 2.07 and build number 1:

- 314 [VPL Firmware Rev] must equal 2.07
- 315 [VPL Build Number] must equal 1
- 526 [MC Build Number] must equal 1
- 527 [MC Firmware Rev] must equal 2.07

If these parameters indicates other values, repeat steps one through four.

Step 5: Documenting Revision Changes

Document drive revisions on the “Field Installed Options” tag.

ahw0548.eps

