

Overview

- This document details the procedure for upgrading the firmware in iPIO-8 Ver 1.0 hardware
- The process uses File Transfer Protocol (FTP) to upload firmware and boot sector files to the iPIO-8.
- The upgrade technique described in this document covers iPIO-8 **Ver 1.0 hardware devices only**.
- Version 1 devices can be identified by the center portion of the serial number. Serial numbers are 15 digits long, beginning with a 7 digit item number, followed by a 3 digit revision number. The iPIO-8 item number is 1340070. This document will cover revision 000 through 009.
If your revision number is 020 or higher, then this upgrade is not for you.
Good Examples: 1340070**009**xxxxx, 1340070**005**xxxxx, 1340070**002**xxxxx
Bad Examples: 1340070**020**xxxxx, 1340070**022**xxxxx

Before You Begin

Download the desired image.bin and rom.bin files and place them in an easily accessible directory. All program files are named image.bin, so use the directory name provided, or individual directories with identifiable names. You will also need the IP address of the iPIO-8 to be upgraded.

Procedure

- 1) Open an FTP client. Windows users can use Start...Run...FTP to open the FTP client.
Other users consult your FTP client documentation.
- 2) Connect to the IP address of the iPIO-8. Using the windows client:
FTP> Open xxx.xxx.xxx.xxx <enter>
Where xxx.xxx.xxx.xxx is the ip address of the iPIO-8
- 3) At the username prompt enter root <enter>
FTP> root <enter>
- 4) At the password prompt enter the administrator password <enter> * See note
FTP> admin<enter>
Note: If upgrading from versions 1.0.xx, the password is fixed at dataprobe
- 5) Change the transfer type to Binary
FTP> binary <enter>
- 6) Upload the file rom.bin with the put command
FTP> put c:\dataprobe\ipio\1.23.107\rom.bin <enter>
Where c:\dataprobe\ipio\1.23.107\ is the location of rom.bin
- 7) Upload the file image.bin with the put command
FTP> put c:\dataprobe\ipio\1.23.107\image.bin <enter>
Where c:\dataprobe\ipio\1.23.107\ is the location of image.bin
- 8) Quit the FTP Client to start the upgrade
FTP> quit<enter>
- 9) After the firmware is uploaded, the iPIO-8 will automatically restart. Wait for the blinking on the Activity LED (ACT) on the network connector to indicate that the iPIO-8 has restarted. This should take 60-90 seconds. **Do not lose power during the restart.**

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Administrator: Command Prompt
C:\dataprobe\ipio>ftp
ftp> open 10.10.10.254
Connected to 10.10.10.254.
220 NET+OS 7.4.1 FTP server ready.
User (10.10.10.254:(none)): root
331 User root OK, send password.
Password:
230 Password OK.
ftp> binary
200 Type set to I.
ftp> put c:\dataprobe\ipio\1.23.107\rom.bin
200 PORT command Ok.
150 About to open data connection.
226 Transfer complete
ftp: 52500 bytes sent in 0.15Seconds 357.14Kbytes/sec.
ftp> put c:\dataprobe\ipio\1.23.107\image.bin
200 PORT command Ok.
150 About to open data connection.
226 Transfer complete
ftp: 1164142 bytes sent in 10.33Seconds 112.65Kbytes/sec.
ftp> quit
221 Goodbye.

C:\dataprobe\ipio>_
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