

## Reflashing PCB-4000A or PCB4300A Ethernet Phase Combiner

Directions for upgrading the PCB-4000A or PCB4300A firmware are included in this ftp\_upgrade.docx file.

1. Identify the reflashable product, firmware number, and version that you wish to download.

Using serial remote control, you can query the firmware revision levels with the <1/SWR? command.

2. Create a temporary directory (folder) on your PC.

Windows: Select File > New > Folder > and rename the New Folder to "temp" or another convenient and unused name. Assuming "temp" works, you should now have a "c:\temp" folder created. Note: the c: is the drive letter used in this example. Any valid writable drive letter can be used.

CMD Prompt: At the command prompt (c:\>) type "MD temp" without quotes (Note: MD stands for make directory). This is the same as creating a new folder from within Windows. Assuming this works, you should now have a "c:\temp" subdirectory created where c: is the drive letter used in the example.

3. Download the correct firmware file to this temporary folder.

Access the download server with the flash firmware data files link,  
<http://www.comtechefdata.com/support/software/flashupgrades/>

### About Firmware Numbers, File Versions, and Formats:

The flashable files on the download server are organized by product first, then by firmware number, (make sure you know the correct firmware number - see step 1) version if applicable, and release date. The bulk firmware for the PCB-4X00A will be FW-0021045\*\_WebRelease\_ \*\_\*.zip (where the asterisks show revision and version).

The current version firmware release is provided. If applicable, one version prior to the current release is also available. Be sure to identify and download the desired version.

The downloadable files are stored in two formats: \*.exe (self extracting) and \*.zip (compressed).

Some firewalls will not allow the downloading of \*.exe files. In this case, download the \*.zip file instead.

For additional help with "zipped" file types, refer to "pkzip for windows", "winzip", or "zip central" help files. Pkzip for DOS is not supported due to our file naming conventions.

4. Unzip the files in the temporary folder on your PC.

At least 6 files should be extracted:

- a. FW-0021045\*\_v\*\_\*.zip, where "\*\_\*\_\*" is the version (bulk image file).
- b. FW10874-2(.mib (Comtech EF Data MIB file) , where \* is the revision
- c. FW-0021047\*\_v\*.mib (PCB-4X00A MIB file), where \* is the revision.

- d. FW-0021048\*\_v\*.mib (PCB-4X00A MIB Traps file), where \* is the revision.
- e. PCB-4X00A\_ReleaseNotes\_v\*\_\*\_\*.doc, where "X" is the version (release notes).
- f. ftp\_upgrade.docx installation notes (this file)

5. Connect the client PC to the PCB-4XXXXA Phase Combiner via a hub or a switch, or directly to a PC with a crossover cable.

Verify the communication and connection by issuing a "ping" command to the unit. You can find the IP address of the unit remotely using the <1/IPA?.

To PING and FTP from DOS, press the "Start" button on the Windows toolbar, and select the "Run..." option. From WinXP, Windows7, type "cmd". You can also use the "DOS Prompt" or "Command Prompt" icons in the Start Menu. Now change to the temporary directory you created earlier with "cd C:\temp". A quick "dir" will show you the files you downloaded.

6. Initiate an FTP session with the modem. The example is with a DOS window.

- a. From the PC, type "ftp xxx.xxx.xxx.xxx" where "xxx.xxx.xxx.xxx" is the IP address of the PCB-4X00A.
- b. Type "comtech" for user name and "comtech" for password to complete login.
- c. Verify your FTP transfer is binary by typing "bin".
- d. Type "prompt" then type "hash" to facilitate the file transfers.

7. Transfer the files.

Type "put FW-0021045\*\_v\*\_\*\_\*.zip" to begin the file transfers.

8. Terminate the FTP session by typing "bye" and closing the DOS window.

9. Verify the FTP upgrade using <1/SWR? serial remote command.

10. Change the desired image to boot using the <1/IMG=X serial remote command. Where X is 1 or 2, then reboot the unit.

10. Verify the new software versions are booting by using <1/RET? serial remote command response:

PCB-4X00A Phase Combiner Ver: X.X.X.