

# Local Firmware Download

## Help Guide

Performing a local Firmware Download allows you to download the latest software version to the iPocket232 Inc.'s unit using terminal emulation software, such as HyperTerminal or Procomm Plus. First, check the software version number and date in the System Settings sub-menu. For information on the latest software version, contact us at sales@ipocket232.com.

```

Ether-232 Configuration  → v3.19.02
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Device Settings:        System Settings:
1) Ethernet:           192.168.2.56  A) Unit ID value: 00:01:1E:00:02:C9
2) Serial Port:       Transparent  B) Web Page Download: 31kB
                                     C) Firmware Download: 2002-06-28
*) Save Current Configuration
-) Exit Configuration (no save)
$) Security Settings
#) System Settings
?) Refresh this Screen
                                     D) Display System Status
                                     E) Dump System Log (long)
                                     F) Delete System Log
                                     G) Perform Self Test
                                     H) Reset Unit
Change which option?

```

Check the Software Version and Date

*NOTE: These instructions apply to HyperTerminal and Procomm Plus, but the settings and general procedures are the same for most programs.*

### Get the Latest Software

- 1 Contact sales@ ipocket232.com to obtain the latest software for your device. You will be sent a .ZIP file.
- 2 Unzip the file.  
The .HEX file is the download file.

### Performing a Firmware Download

- 1 Connect the unit to the COM port of your PC or terminal with a null modem cable, just as you would for local configuration.

2 Start the terminal program and press the CONFIGURE button on the back of the unit with a ballpoint pen or similar item. The Configuration screen appears.

3 Choose System Settings from the Device Settings menu.

4 Choose Firmware Download from the System Settings menu.

The download confirmation message appears, as shown below.

```
The firmware download utility is for upgrading software internal to this device. Are you sure this is what you wish to do? (y/n)
```

5 Type n to stop the download and return to Configuration mode, or type y to continue.

Instructions to reconfigure the terminal program appear, as shown below.

```
This utility runs at 38400 bps, 8 bits, no parity, with hardware (RTS/CTS) handshaking. Please change your terminal program to these settings and hit <return>:
```

6 Change the communications settings to speed up the download.

- For HyperTerminal:

1. From the File menu, choose Properties.
2. In the Properties dialog box, click the Configure button.
3. Change the bps to 38400, the Flow Control to Hardware, and other settings as required.
4. Click OK.
5. From the Call menu, select Disconnect, then select Call. (This resets the terminal with the new settings.)

- For Procomm Plus:

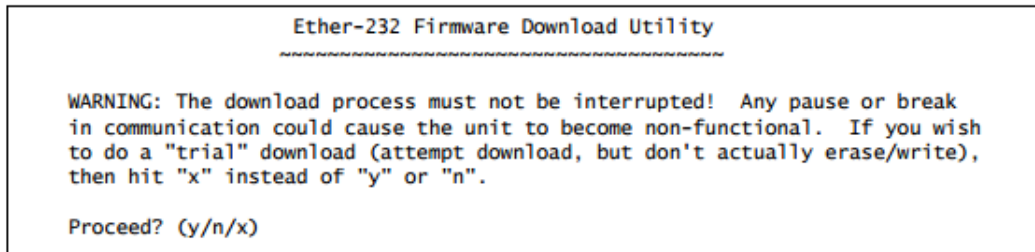
1. From the Options menu, choose System Options>Modem Connections...
2. Click the Modem/Connections Properties button.
3. Change the baud rate to 38400, check the Use hardware flow control button, and change other settings as required.

4. Click OK to close the Modem/Connections dialog box.

5. Click OK to close the Setup dialog box.

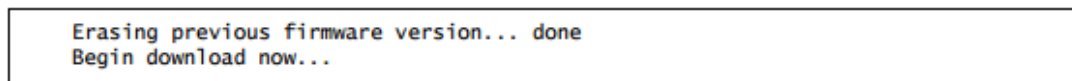
6 Press Enter.

The Firmware Download Utility warning screen appears, as shown below.



7 Choose an option from the following:

- Type x for a trial download. This allows you to attempt a download without actually burning in the new code over the old. If you do the trial procedure without an error, you know you are doing it correctly.
- Type y for a full download. This option permanently deletes the existing code by burning the new code over it.
- Type n to stop the download process. The unit will reset and exit configuration mode.



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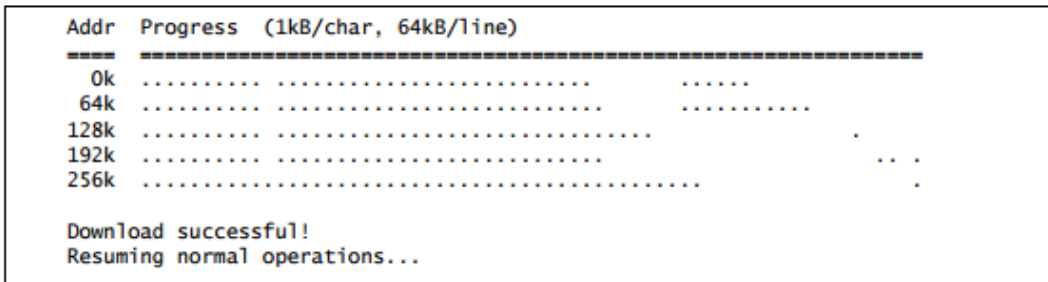
**NOTE:** *The download utility will timeout after 1 minute if you have not started downloading the new file to the unit. If you are performing a trial download, the unit resumes normal operations. If you are performing a full download you are prompted again to begin the download.*

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8 You are ready to send the new firmware to the iPocket232 device.

- For HyperTerminal:
  1. From the Transfer menu, choose Send Text File.
  2. In the Files of type drop down box, select All files (\*.\*).
  3. Browse to the .HEX file you unzipped earlier, and click Open.
  
- For Procomm Plus Terminal:
  1. From the Data menu, choose Send File...
  2. Browse to the .HEX file you unzipped earlier and click Open.

The download begins immediately and dots appear as bytes of code are written into the memory. Once the download is complete you will get the Download Successful message, as shown below.



3 Reconfigure the baud rate to 9600 in the terminal software and press the CONFIGURE button on the iPocket232 Inc. unit to return to configuration mode.

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***NOTE:** The iPocket232 Inc. unit should retain all your previous settings. Ensure your settings are correct before resuming operations.*

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## **Error Messages**

- “DOWNLOAD ERRORS”: If the terminal settings are incorrect, or there is a problem with the file, you may get an error message. For example, if hardware handshaking is not chosen as the method of flow control, the download will fail, as shown below. If you are performing a full download, you are prompted to begin the download again. Contact iPocket232 Inc. for a new download file if you encounter

