

# Local Firmware Download

## Help Guide

Performing a local Firmware Download allows you to download the latest software version to the Precidia 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 [productinfo@precidia.com](mailto:productinfo@precidia.com).

```

Precidia                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 | D) Display System Status
-) Exit Configuration (no save) | E) Dump System Log (long) ↑
$) Security Settings          | F) Delete System Log
#) System Settings            | G) Perform Self Test
?) Refresh this Screen        | 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 Precidia at [productinfo@precidia.com](mailto:productinfo@precidia.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 Precidia 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 Precidia 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.

```

Ether-232 Firmware Download Utility
~~~~~
WARNING: The download process must not be interrupted! Any pause or break
in communication could cause the unit to become non-functional. If you wish
to do a "trial" download (attempt download, but don't actually erase/write),
then hit "x" instead of "y" or "n".

Proceed? (y/n/x)

```

## 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 Precidia unit will reset and exit configuration mode.

If you typed “y” for the full download, the existing software is erased.

The Begin download now... message appears, as shown below.

```

Erasing previous firmware version... done
Begin download now...

```

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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 Precidia 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**.

