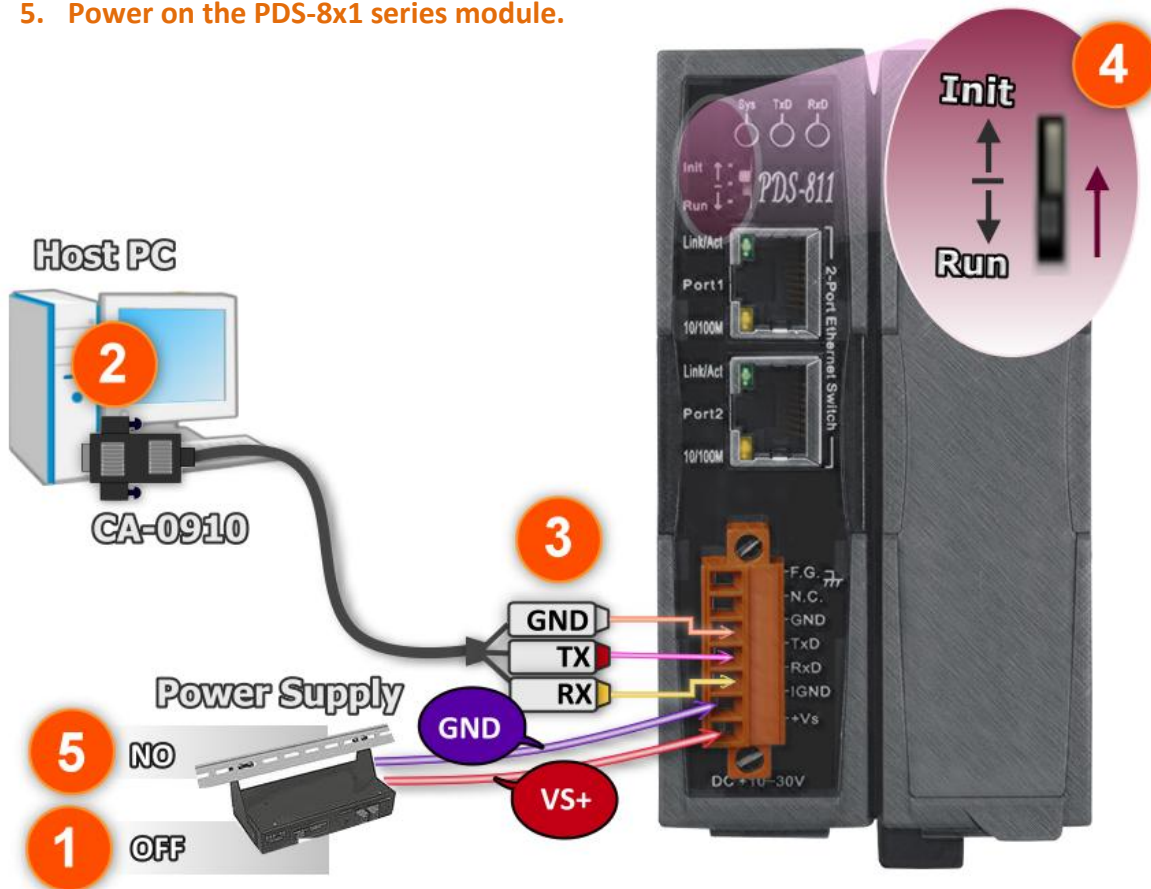


## Q. How to Update the MiniOS7 and Firmware for PDS-8x1 Series Modules?

**A:** Follow the procedure described below to update the MiniOS7 and firmware for PDS-8x1 series modules:

**Step 1:** Before updating the firmware, please ensure that the PDS-8x1 series module is connected with your host computer. Refer to the following steps for the details.

1. Power off the PDS-8x1 series module.
2. Connect the connector of CA-0910 download cable to your host computer.
3. Wire the CA-0910 to PDS-8x1 series module, as follows:
  - 3-1: Connect the CA-0910.TX with PDS-8x1.TxD
  - 3-2: Connect the CA-0910.RX with PDS-8x1.RxD
  - 3-3: Connect the CA-0910.GND with PDS-8x1.GND
4. Set the “Init/Run Switch” on the PDS-8x1 module to the in “Init Mode” position.
5. Power on the PDS-8x1 series module.



**Step 2:** Download the Firmware File of PDS-8x1 series module and then decompress it to a temp folder, for example PDS800fw.



Download the Firmware File.

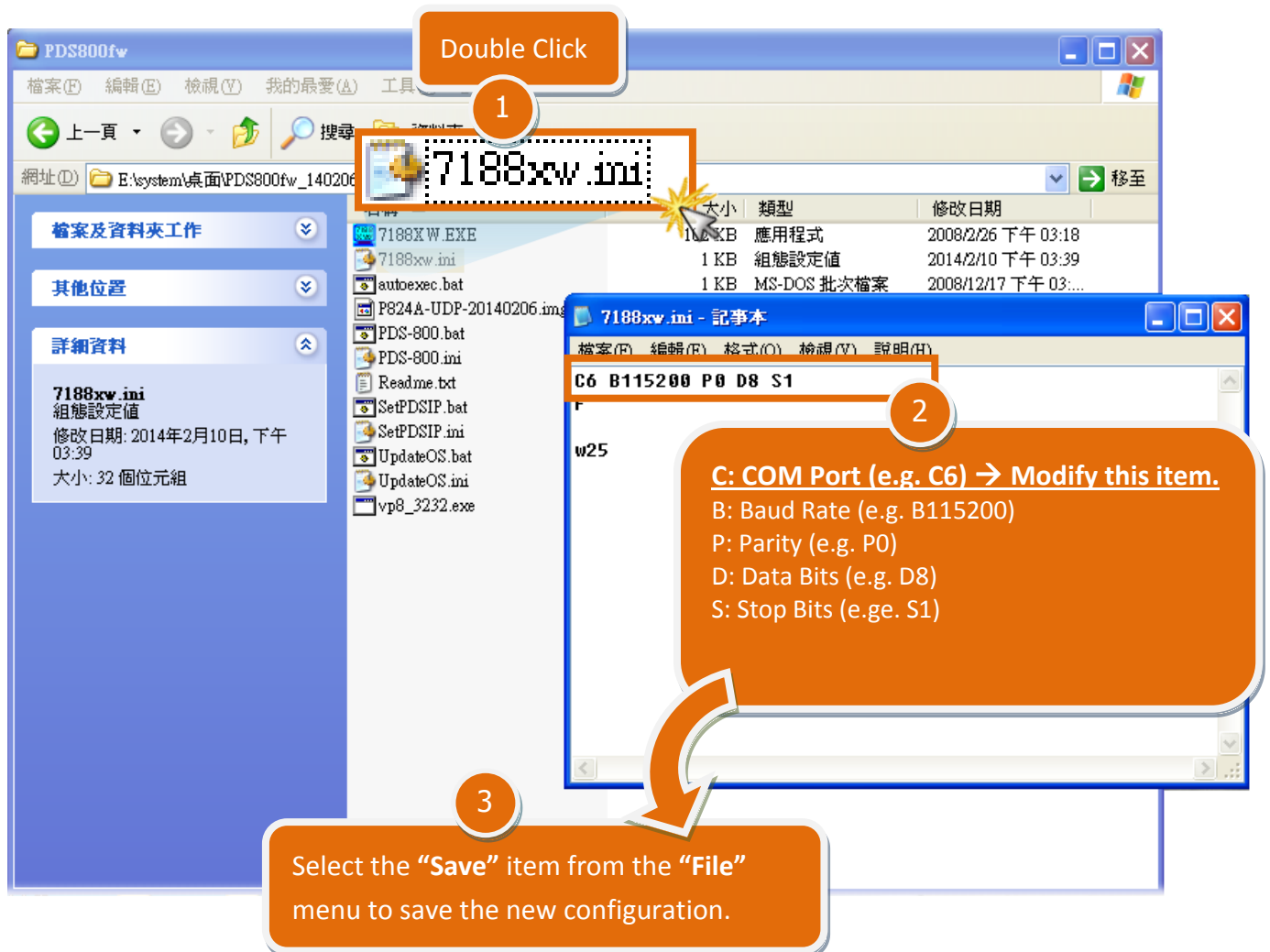
The PDS-8x1 MiniOS7 and firmware files are compressed in Zip format. You can decompress the zip file by 7-Zip, WinZip, WinRAR... utilities.

**Step 3:** Please modify COM Port number in **7188xw.ini** file, depend on your PC COM Port that connect to PDS-8x1 series module.

For example (first parameter of the line 1 in the 7188xw.ini):

COM1 ==> C1 B115200 P0 D8 S1

COM2 ==> C2 B115200 P0 D8 S1



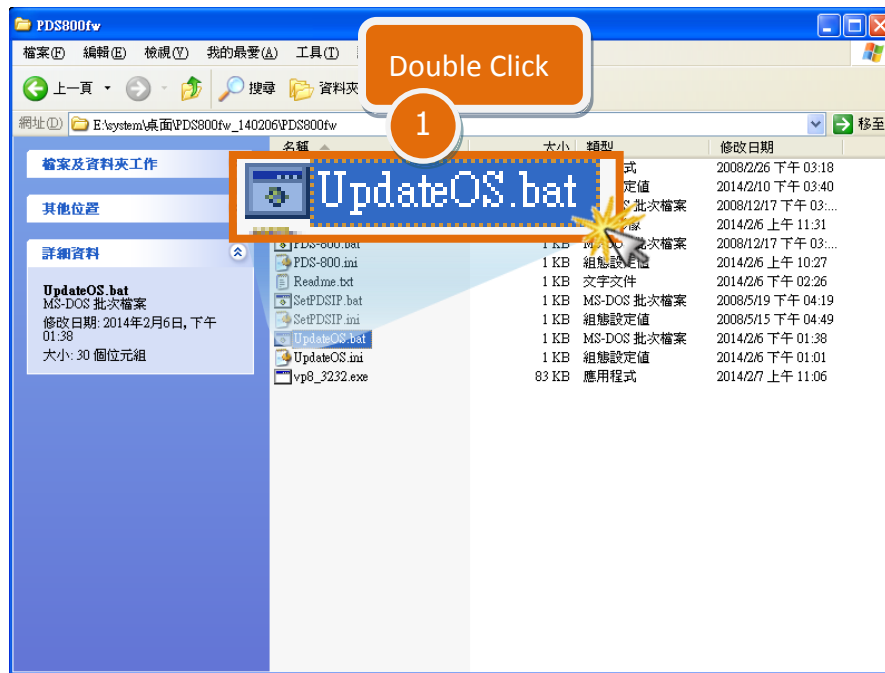
The screenshot shows a Windows Explorer window titled "PDS800fw" with the file "7188xw.ini" selected. A "Double Click" callout points to the file. The file details show it is a 1 KB text file. A Notepad window titled "7188xw.ini - 記事本" is open, showing the first line of the file: "C6 B115200 P0 D8 S1". A callout points to the "C6" and explains the parameters: C: COM Port (e.g. C6) → Modify this item., B: Baud Rate (e.g. B115200), P: Parity (e.g. P0), D: Data Bits (e.g. D8), S: Stop Bits (e.g. S1). A third callout points to the "File" menu in Notepad, instructing to select the "Save" item to save the new configuration.

**1** Double Click

**2** C: COM Port (e.g. C6) → Modify this item.  
B: Baud Rate (e.g. B115200)  
P: Parity (e.g. P0)  
D: Data Bits (e.g. D8)  
S: Stop Bits (e.g. S1)

**3** Select the "Save" item from the "File" menu to save the new configuration.

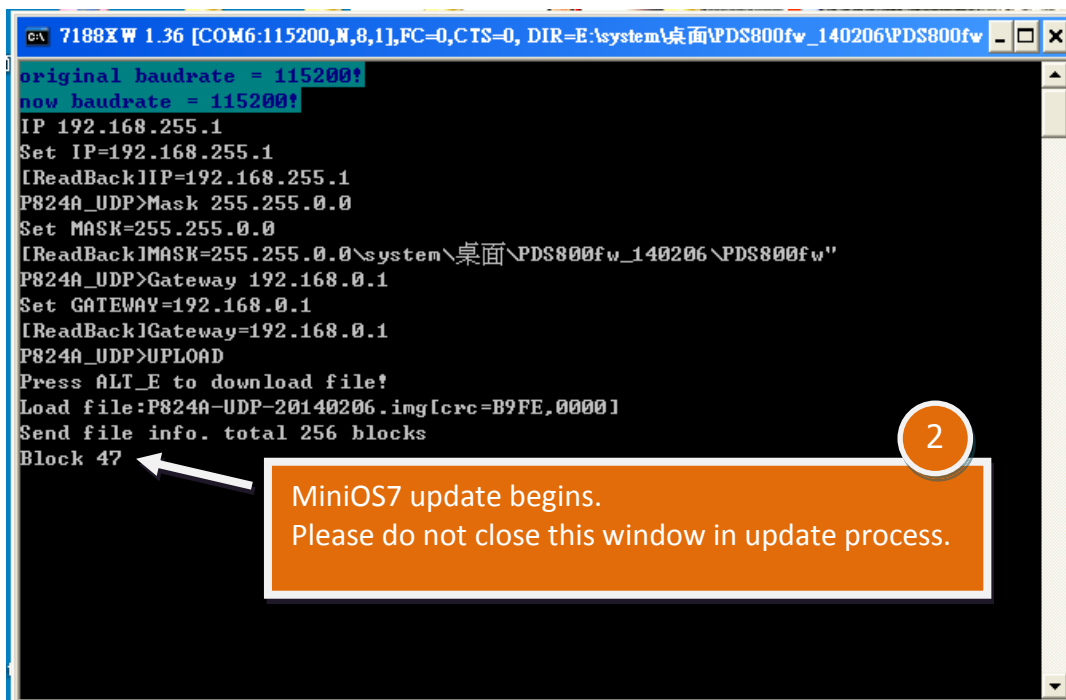
**Step 4:** Double click the **UpdateOS.bat** (on Windows XP/7/8) for starting **MiniOS7 update**.



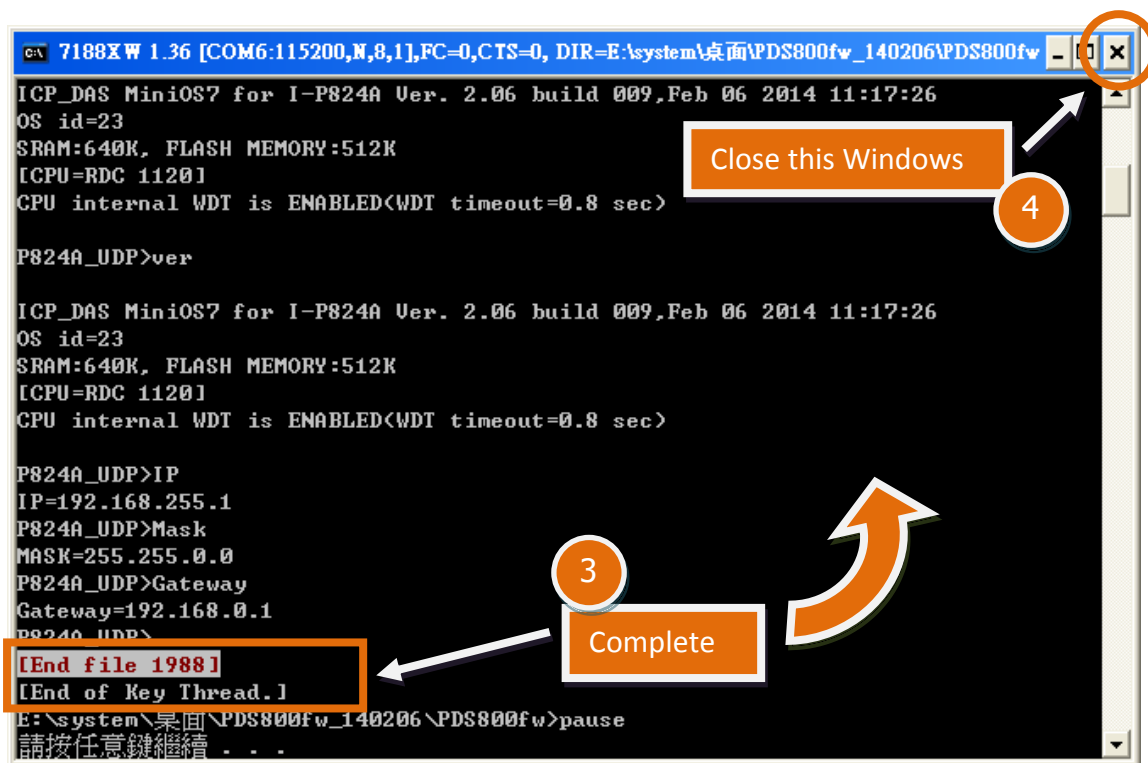
**Step 5:** You are now ready to update the firmware. The **UpdateOS.bat** file will auto run the **7188XW.exe** utility program and shows the progress of the update.

**Step 6:** The **7188XW.exe** utility program will then upload the **MiniOS7 file (P824A-UDP-20140206.img)** into PDS-8x1 series module automatically.

**Note:** Some more information are displayed out of the window, don't care.



**Step 7:** The MiniOS7 updated completed when display **[End file 1988]** and **[End of Key Thread.]** message. Then click the **"X"** icon on the right-top corner of the window to close it.



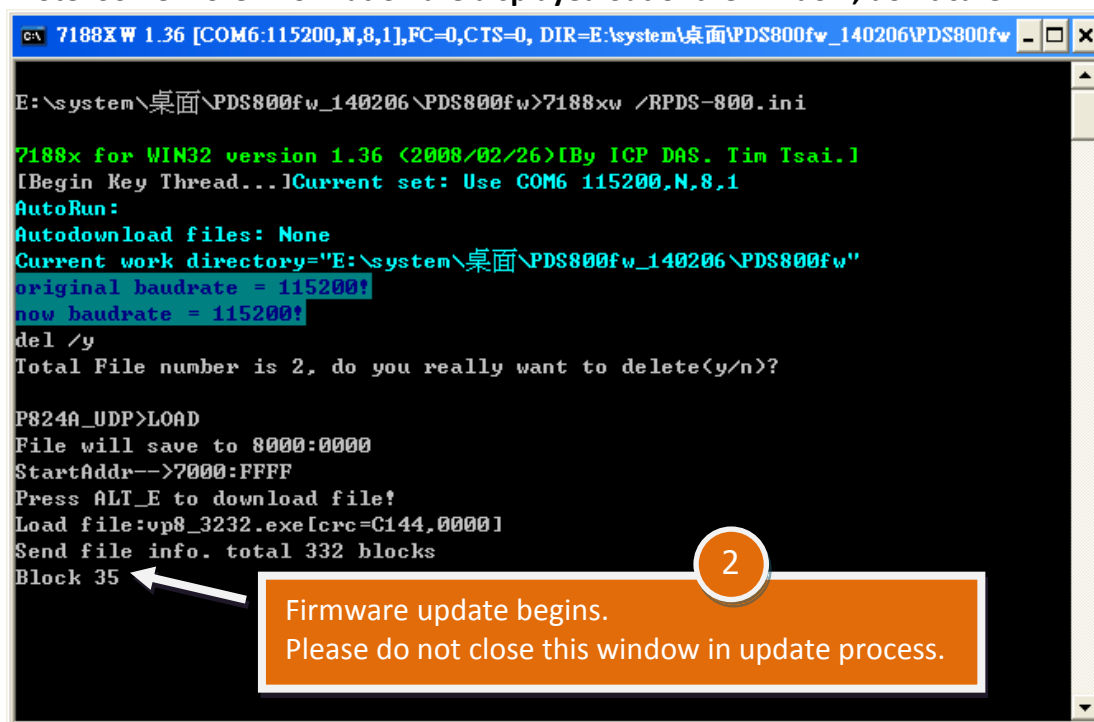
**Step 8:** Double click the **PDS-800.bat** (on Windows XP/7/8) for starting **firmware update**.



**Step 9:** You are now ready to update the firmware. The **PDS-800.bat** file will auto run the **7188XW.exe** utility program and shows the progress of the update.

**Step 10:** The **7188XW.exe** utility program will then upload the **firmware file (vp8\_3232.exe)** into PDS-8x1 series module automatically.

**Note:** Some more information are displayed out of the window, don't care.



```

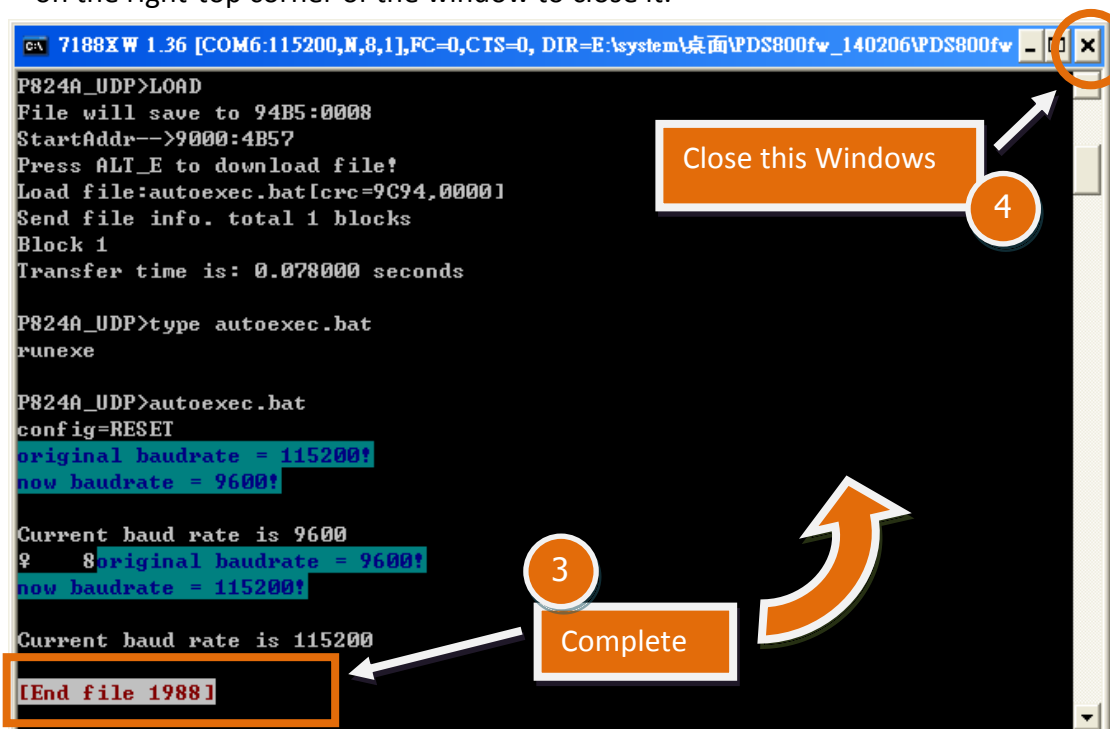
C:\ 7188XW 1.36 [COM6:115200,N,8,1],FC=0,CTS=0, DIR=E:\system\桌面\PDS800fw_140206\PDS800fw
E:\system\桌面\PDS800fw_140206\PDS800fw>7188xw /RPDS-800.ini

7188x for WIN32 version 1.36 (2008/02/26) [By ICP DAS. Tim Tsai.]
[Begin Key Thread...]Current set: Use COM6 115200,N,8,1
AutoRun:
Autodownload files: None
Current work directory="E:\system\桌面\PDS800fw_140206\PDS800fw"
original baudrate = 115200!
now baudrate = 115200!
del /y
Total File number is 2, do you really want to delete(y/n)?

P824A_UDP>LOAD
File will save to 8000:0000
StartAddr-->7000:FFFF
Press ALT_E to download file!
Load file:vp8_3232.exe[crc=C144,0000]
Send file info. total 332 blocks
Block 35
  
```

2  
Firmware update begins.  
Please do not close this window in update process.

**Step 11:** The firmware updated completed when display **[End file 1988]** message. Then click the **"X"** icon on the right-top corner of the window to close it.



```

C:\ 7188XW 1.36 [COM6:115200,N,8,1],FC=0,CTS=0, DIR=E:\system\桌面\PDS800fw_140206\PDS800fw
P824A_UDP>LOAD
File will save to 94B5:0008
StartAddr-->9000:4B57
Press ALT_E to download file!
Load file:autoexec.bat[crc=9C94,0000]
Send file info. total 1 blocks
Block 1
Transfer time is: 0.078000 seconds

P824A_UDP>type autoexec.bat
runexe

P824A_UDP>autoexec.bat
config=RESET
original baudrate = 115200!
now baudrate = 9600!

Current baud rate is 9600
original baudrate = 9600!
now baudrate = 115200!

Current baud rate is 115200
[End file 1988]
  
```

3  
Complete

4  
Close this Windows

**Step 12:** Set the "Init/Run Switch" of the PDS-8x1 module to the in "Run Mode" position.



**Step 13:** Reboot the PDS-8x1 module.

