

SUPPORT

Models supported include PDS-220FT, PDS-220FC, PDS-220FCS and PDS-220FCS-60

WARRANTY

All products manufactured by ICP DAS are warranted against defective materials for a period of one year from the date of delivery to the original purchaser.

WARNING

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CONTACT US

If you have any questions, please feel free to contact us. We will respond within 2 working days.

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PDS-220Fx Series

Firmware Update via 7188XW.exe

Version: 1.0/ Updated: Sep. 2018

Ch. 1. Setting up the PDS-220Fx

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ICP DAS CO., LTD.

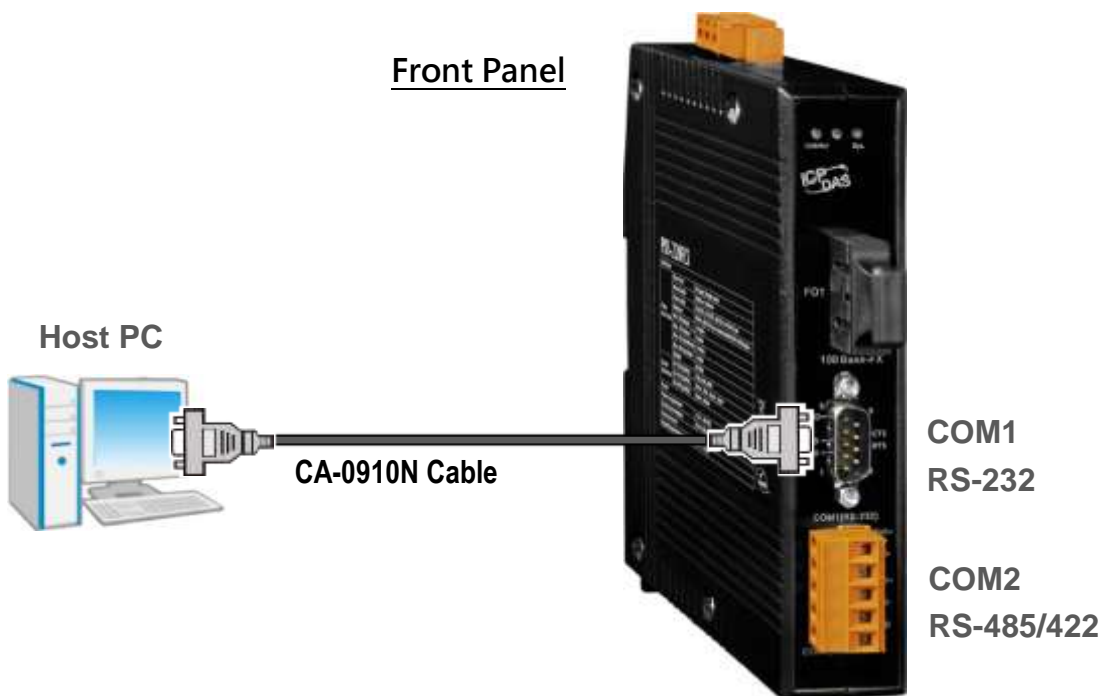
Website: <http://www.icpdas.com>

1. Setting up the PDS-220Fx

Before updating the firmware, please ensure that the PDS-220Fx series module is connected with your host computer. Refer to the following steps for the details.

Step 1: **Switch off** the Power to the PDS-200Fx module.

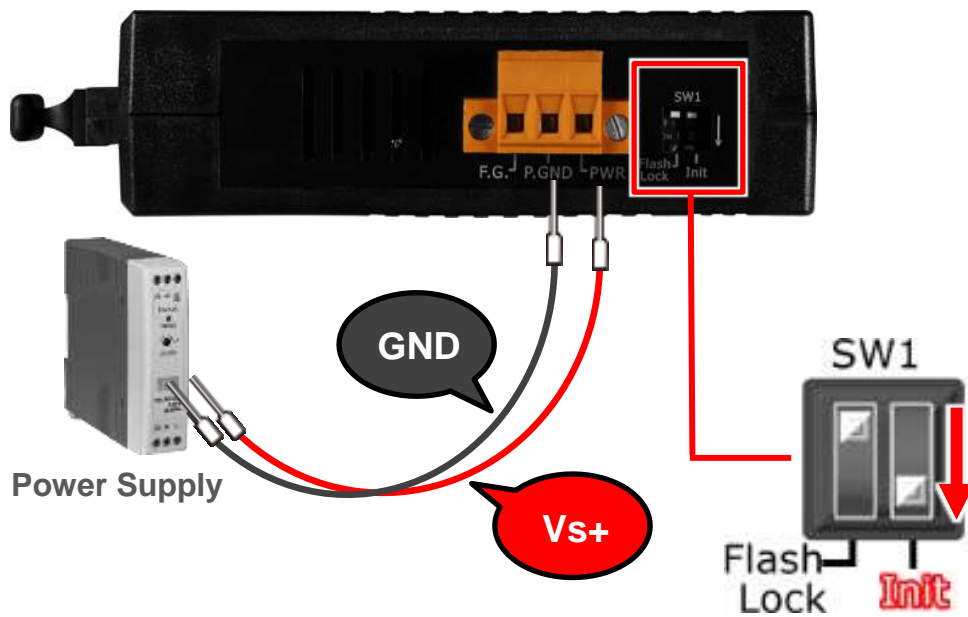
Step 2: Connect the COM1 (RS-232) connector on PDS-220Fx to COM Port on host PC using the **CA-0910N cable**. **Note: CA-0910N is a 3-wire Null-Modem cable (optional).**



Step 4: Set the "SW1" to the "Init" position to initiate the update.

Step 5: Power on (+12 ~ +48 V_{DC}) the PDS-200Fx module.

Top Panel



2. Firmware Update Procedure

Step 1: Download the Firmware File of PDS-200Fx module and then decompress it to a temp folder, for example PDS220_fw_XXXXXX.



[Download the Firmware File.](#)

The PDS-220Fx firmware and autoexec.bat files are compressed in Zip format. You can decompress the zip file by 7-Zip, WinZip, WinRAR... utilities.

Step 2: Modify COM Port number in 7188xw.ini file, depend on your PC COM Port that connect to PDS-200Fx.

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

COM1 ==> C1 B115200 P0 D8 S1

COM2 ==> C2 B115200 P0 D8 S1

Double Click

1

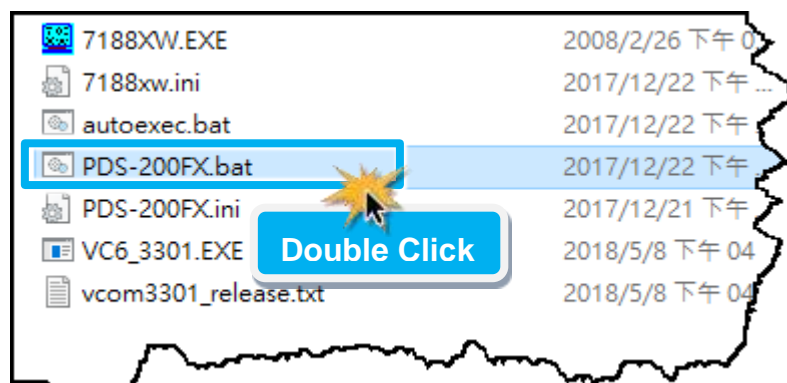
2

3

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

C: COM Port (e.g. C7) → 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)

Step 3: Double click the **PDS-200Fx.bat** for starting update.



Step 4: You are now ready to update the firmware. The PDS-200Fx.bat file will auto run the **7188XW.exe** utility program and shows the progress of the update.

Step 5: The **7188XW.exe** utility program will then upload the **firmware** and **autoexec.bat** files into PDS-200Fx module automatically. If the update cannot proceed, please refer to **note1 (Page 8)**.

```
7188XW 1.36 [COM7:115200,N,8,1],FC=0,CTS=0, DIR=C:\Users\RD1-Tammy\Desktop\PDS-220Fx\Firmware\PDS220_fw_180508
C:\Users\RD1-Tammy\Desktop\PDS-220Fx\Firmware\PDS220_fw_180508>7188xw /RPDS-200FX.ini
7188x for WIN32 version 1.36 (2008/02/26)[By ICP DAS, Tim Tsai.]
[Begin Key Thread...]Current set: Use COM7 115200,N,8,1
AutoRun:
Autodownload files: cr CR
Current work directory="C:\Users\RD1-Tammy\Desktop\PDS-220Fx\Firmware\PDS220_fw_180508"
original baudrate = 115200!
now baudrate = 115200!
del /y
Total File number is 2, do you really want to delete(y/n)?

uPAC-7186EX_UDP>LOAD
File will save to 8000:0000
StartAddr-->7000:FFFF
Press ALT_E to download file!
Load file:vc6_3301.exe[crc=501F,0000]
Send file info. total 400 blocks
Block 138
```

Starting update

Step 6: The Firmware update completed when display [End file xxx] message. Then click the “X” icon on the right-top corner of the windows to close it.

```
7188XW 1.36 [COM7:115200,N,8,1],FC=0,CTS=0, DIR=C:\Users\RD1-Tammy\Desktop\PDS-220Fx\Firmware\PDS220_fw_180508
Current work directory="C:\Users\RD1-Tammy\Desktop\PDS-220Fx\Firmware\PDS220_fw_180508"

AutoRun:
Autodownload files: cr CR

uPAC-7186EX_UDP>LOAD
File will save to 98FE:0000
StartAddr-->9000:8FDF
Press ALT_E to download file!
Load file:autoexec.bat[crc=D16D,0000]
Send file info. total 1 blocks
Block 1
Transfer time is: 0.078000 seconds

uPAC-7186EX_UDP>type autoexec.bat
runexe
reset
uPAC-7186EX_UDP>autoexec.bat
config=RESET
original baudrate = 115200!
now baudrate = 9600!

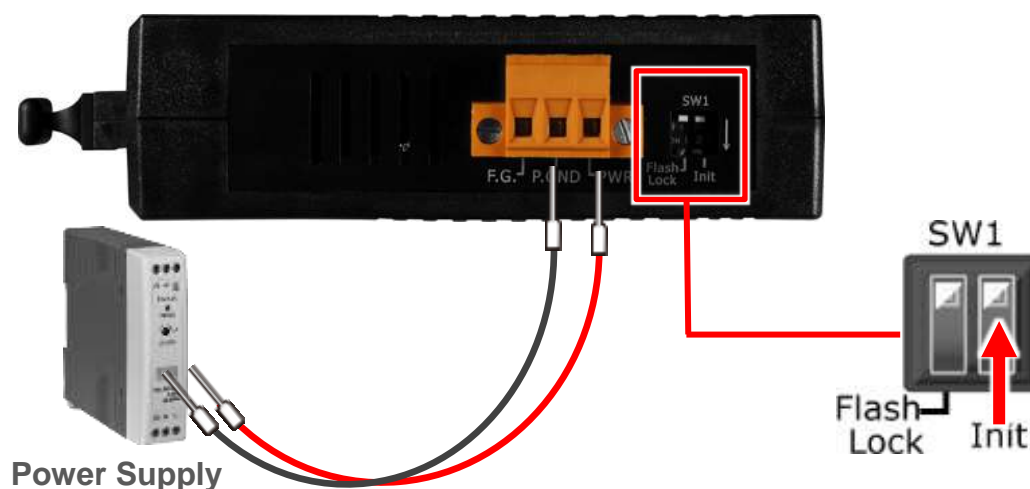
Current band rate is 9600
?> original baudrate = 9600!
now baudrate = 115200!

Current band rate is 115200

[End file 324]
```

Step 7: Set the “SW1” to the “Run” position.

Step 8: Switch off the Power to the PDS-220Fx module and then switch it back on again to rebot the module to “Run” operation.



Step 9: Connect both the PDS-220Fx module and your computer to the same sub network or the same Ethernet Switch.

Please refer to “**Chapter 1- Connecting the Power and Host PC**” in the PDS-200Fx Quick Start Guide.

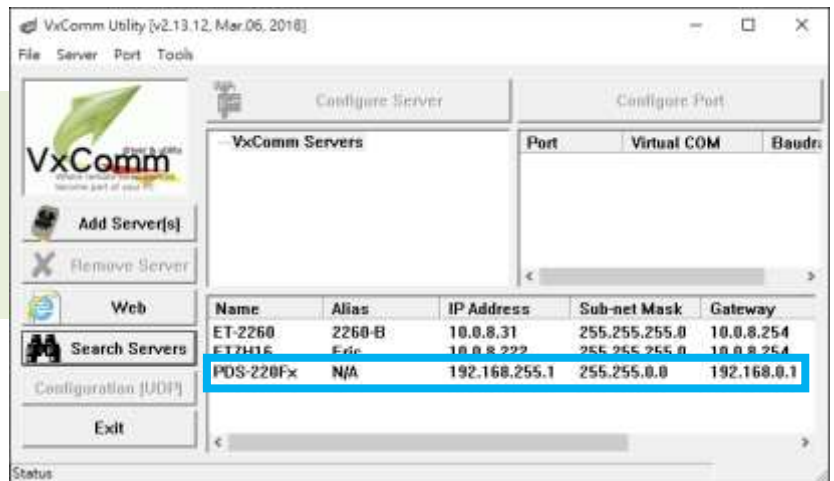


[Download the Quick Start Guide.](#)

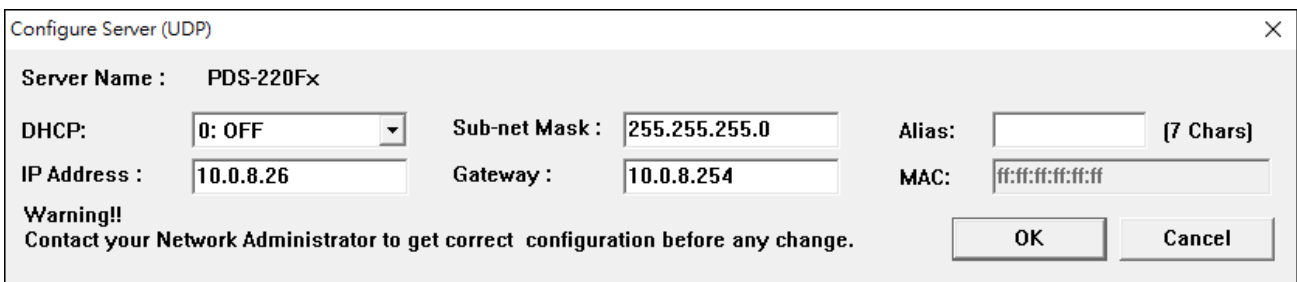
Step 10: Install the VxComm Utility on your Host PC, and then run the Utility to search for any PDS-220Fx module connected to the network.



[Download the VxComm Utility.](#)



Step 11: Configure the correct network settings for the required PDS-700 module.



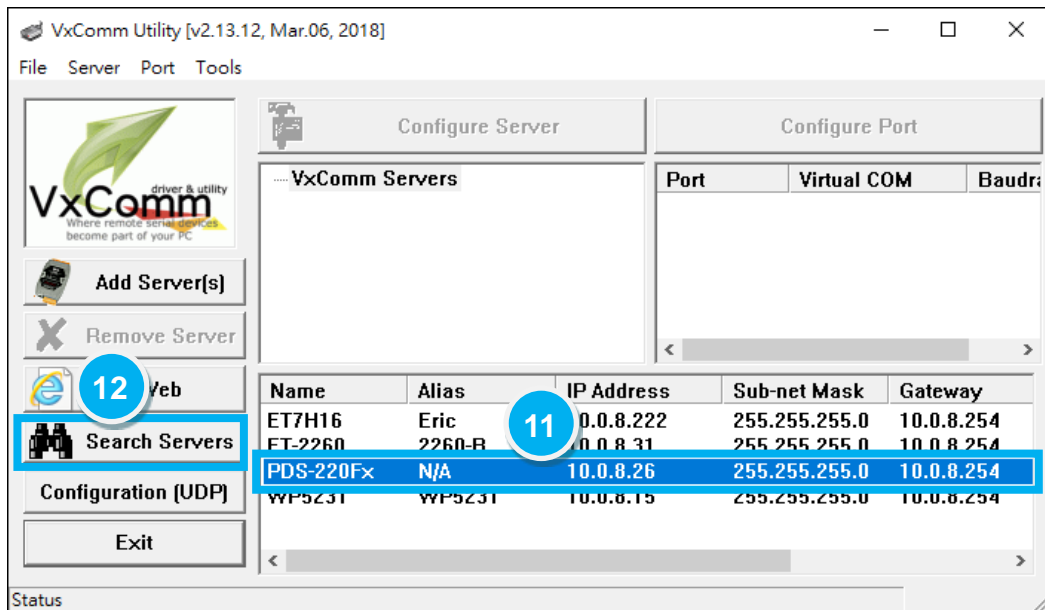
Please refer to “**Chapter 3-Configuring Network Settings**” in the PDS-220Fx Quick Start Guide. If the IP address settings do not work correctly, refer to **note2 (Page 8)**.



[Download the Quick Start Guide.](#)

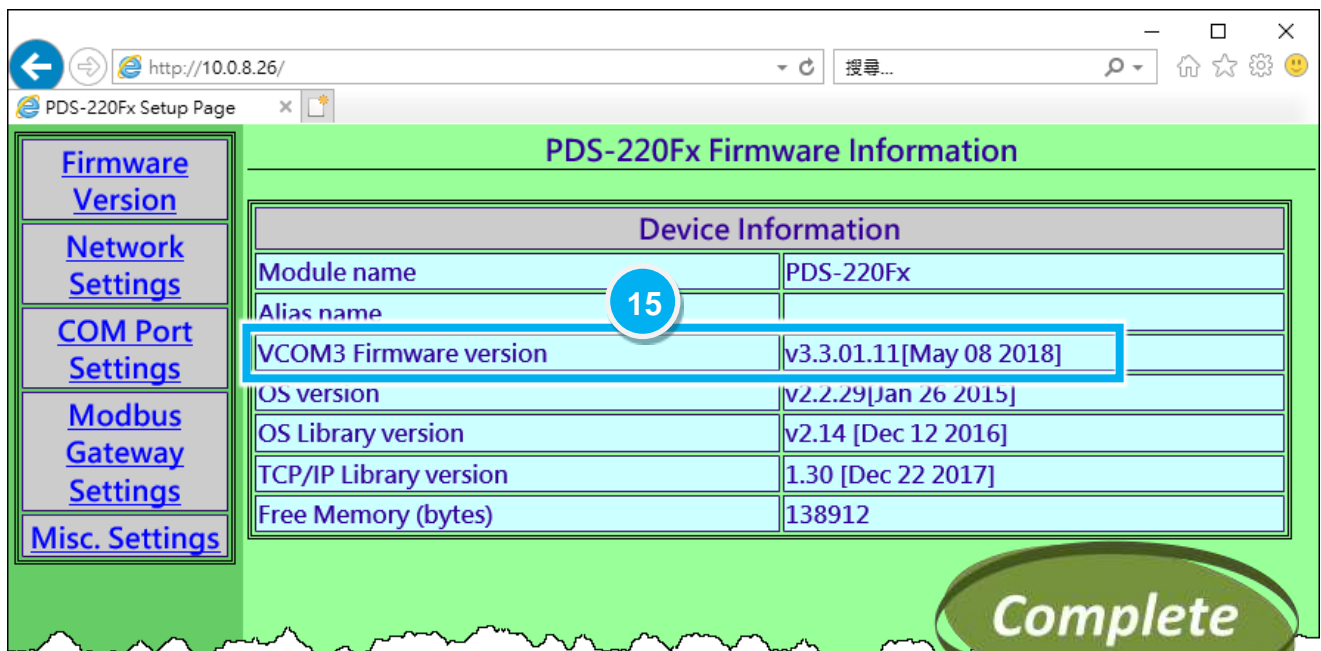
Step 12: Click the name of the PDS-220Fx module.

Step 13: Click the "Web" button.




Step 14: Log in to the web configuration pages for the PDS-220Fx.


Step 15: Verify that the firmware version and date details are correct.




3. Additional Information

Notes:

 **Note 1:** Make sure the 7188XW.exe and autoexec.bat program files exist on the same folder. If not, update firmware can't be successful. [back](#)

 **Note 2:** If the IP address settings do not work correctly (e.g. there is no response to a ping command), please contact your network administrator to obtain a valid IP address for the PDS-220Fx module. [back](#)

 **Note3:** 7-Zip—Free Archiving (Compress and Decompress) Utility
7-Zip is a free archiving utility, you can get it from the following web:
<http://www.7-zip.org/>