

SUPPORT

Models supported include
DS-712 and DS-715

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

ICP DAS assumes no liability for damages consequent to the use of this product. ICP DAS reserves the right to change this manual at any time without notice. The information furnished by ICP DAS is believed to be accurate and reliable. However, no responsibility is assumed by ICP DAS for its use, nor for any infringements of patents or other rights of third parties resulting from its use.

COPYRIGHT

Copyright © 2018 by ICP DAS. All rights are reserved.

TRADEMARKS

Names are used for identification purposes only and may be registered trademarks of their respective companies.

CONTACT US

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

Email: service@icpdas.com ; service.icpdas@gmail.com

DS-700 Series

Firmware Update via 7188XW.exe

Version: 1.0/ Updated: Aug. 2018

Ch. 1. Setting up the DS-700

Ch. 2. Firmware Update Procedure

Ch. 3. Additional Information



ICP DAS CO., LTD.

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

1. Setting up the DS-700

Before updating the firmware, please ensure that the DS-700 module is connected with your host computer. Refer to the following steps for the details.

Step 1: **Switch off** the Power to the DS-700 module.

Step 2: Connect the DS-700 module to your host computer.

- DS-712: Connect the COM1 connector on DS-712 to COM Port on host PC using the **CA-0910N cable**, as illustrated in the Figure 1-1 below. **Note: CA-0910N is a 3-wire Null-Modem cable (optional).**
- DS-715: Remove the screw and top shell first, and then connect the JP2 connector to COM Port on host PC using the **CA-0904 (optional) and CA-0915 (optional) cables**, as illustrated in the Figure 1-2 below.

Step 3: **Short the INIT* and GND pins** of the DS-700 module in “Init” to initiate the update.

Step 4: **Switch on** the Power to the DS-700 module.

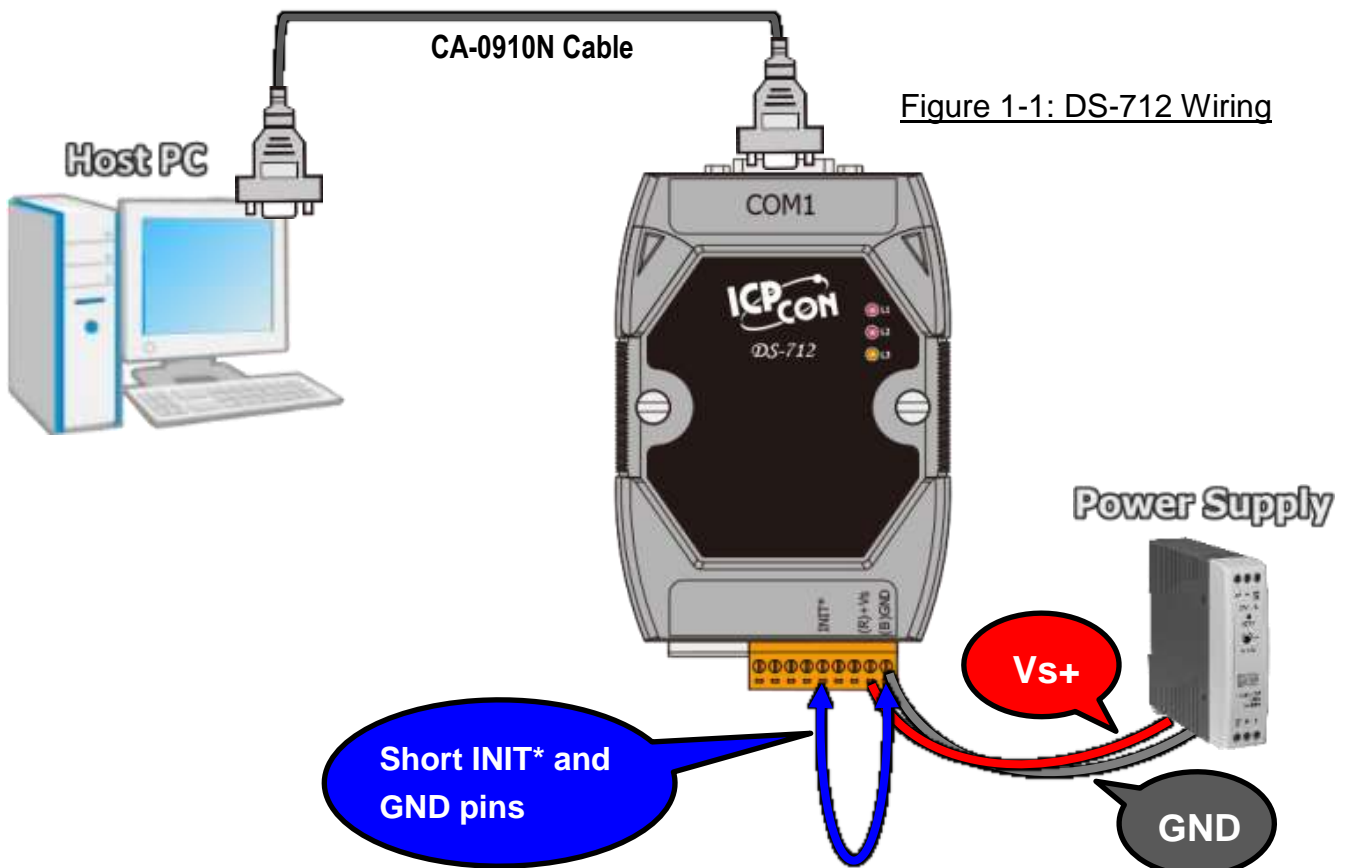
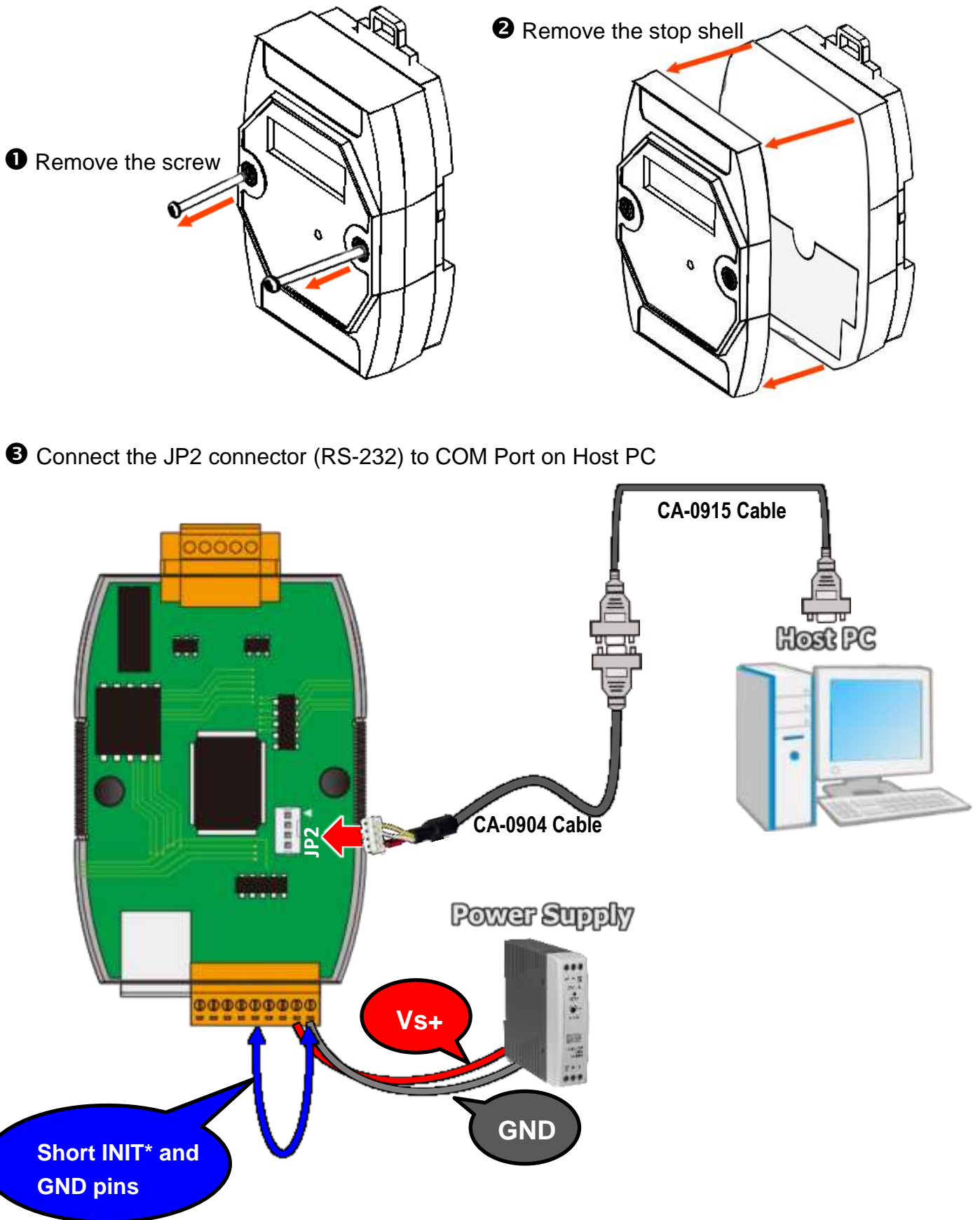


Figure 1-2: DS-715 Wiring



2. Firmware Update Procedure

NOTE: DS-700 using the same MiniOS7 and firmware with the PDS-700, and also provides virtual COM features. The DS-700 is non-programmable serial-to-Ethernet devices server while the PDS-700 is programmable.

Step 1: Download the Firmware File of DS-700 module and then decompress it to a temp folder, for example DS700fw.



[Download the PDS-700 Firmware File.](#)

The DS-700 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 DS-700.

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

COM1 ==> C1 B115200 P0 D8 S1

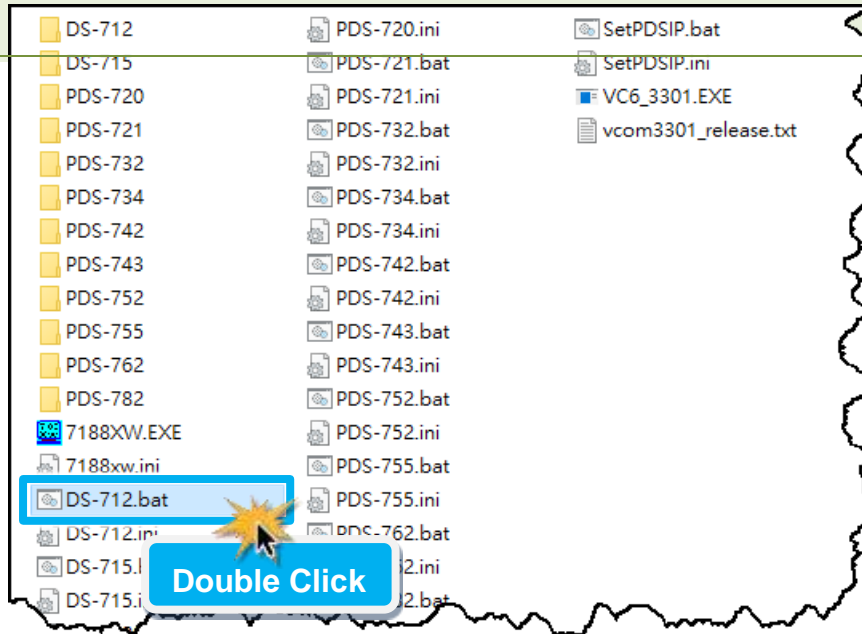
COM2 ==> C2 B115200 P0 D8 S1

1 Double Click

2 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)

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

Step 3: Double click the **DS-7xx.bat** for starting update. The **DS-7xx.bat** file is depending on model name of your DS-700 module. Refer to **note1 (Page 8)** for more details. (e.g. DS-712.bat.)



Step 4: You are now ready to update the firmware. The DS-7xx.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 DS-700 module automatically. If the update cannot proceed, please refer to **note2 (Page 8)**.

```
C:\Users\RD1-Tammy\Desktop\DS_PDS-700\Firmware\pds-700_fw_180508
C:\Users\RD1-Tammy\Desktop\DS_PDS-700\Firmware\pds-700_fw_180508>7188xw /RDS-712.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: None
Current work directory="C:\Users\RD1-Tammy\Desktop\DS_PDS-700\Firmware\pds-700_fw_180508"
original baudrate = 115200
now baudrate = 115200
del /y
Total File number is 2, do you really want to delete(y/n)?
PDS-700>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 124
```

Starting update

Step 6: The MiniOS7 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\DS_PDS-700\Firmware\p)pds-700_fw_1805...
Current work directory="C:\Users\RD1-Tammy\Desktop\DS_PDS-700\Firmware\p)pds-700_fw_180508\DS-712"
AutoRun:
Autodownload files: None

PDS-700>LOAD
File will save to 98FE:0000
StartAddr-->9000:8FDF
Press ALT_E to download file!
Load file:autoexec.bat[crc=8C1A,0000]
Send file info. total 1 blocks
Block 1
Transfer time is: 0.079000 seconds

PDS-700>type autoexec.bat
runexe /nDS-712

PDS-700>autoexec.bat
config=RESET
original baudrate = 115200!
now baudrate = 9600!

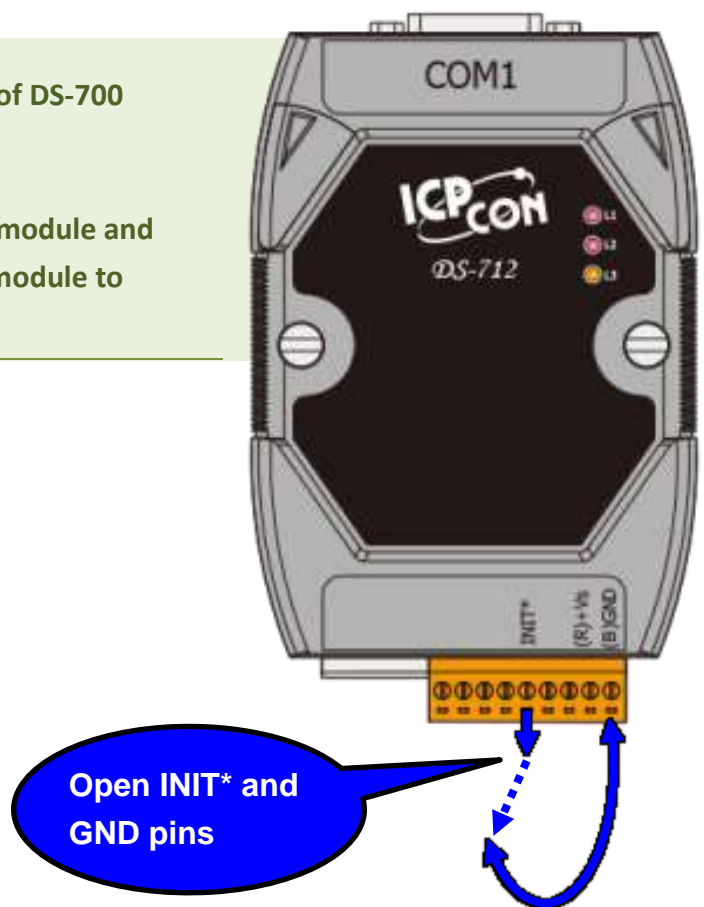
Current baud rate is 9600
original baudrate = 9600!
now baudrate = 115200!

Current baud rate is 115200

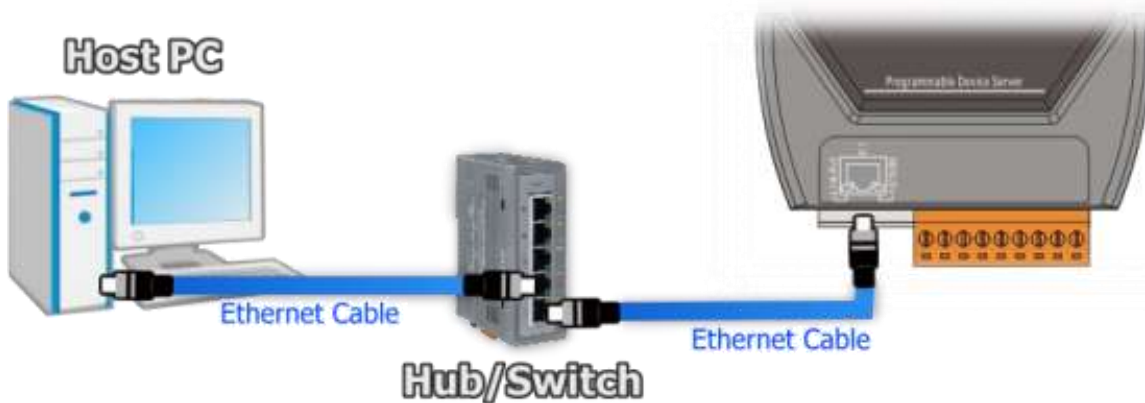
[End file 288]
```

Step 7: Disconnect the INIT* and GND pins of DS-700 module.

Step 8: Switch off the Power to the DS-700 module and then switch it back on again to reboot the module to "Normal" operation.



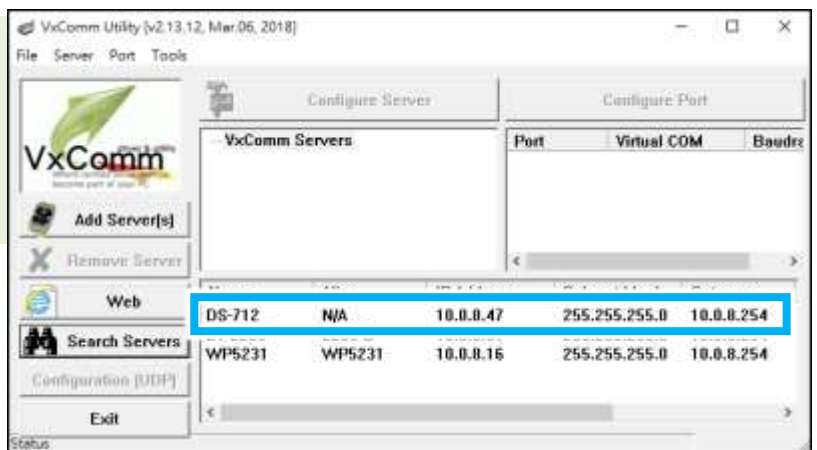
Step 9: Connect both the DS-700 module and your computer to the same sub network or the same Ethernet Switch.



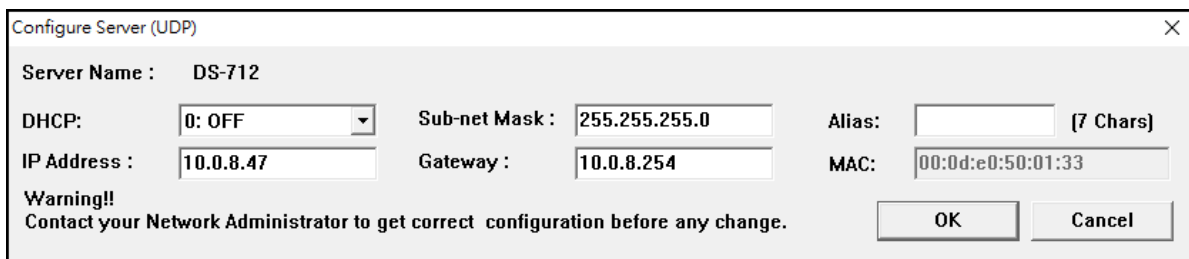
Step 10: Install the VxComm Utility on your Host PC, and then run the Utility to search for any DS-700 module connected to the network.



[Download the VxComm Utility.](#)



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



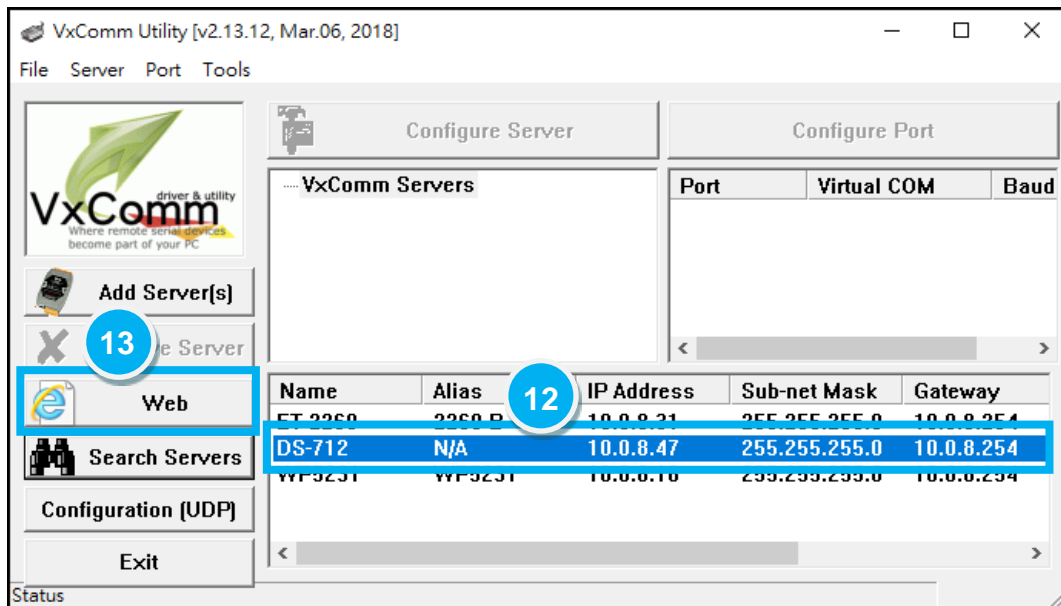
Please refer to “Chapter 3-Configuring Network Settings” in the DS-700 Quick Start Guide. If the IP address settings do not work correctly, please refer to **note3 (Page 8)**.



[Download the Quick Start Guide.](#)

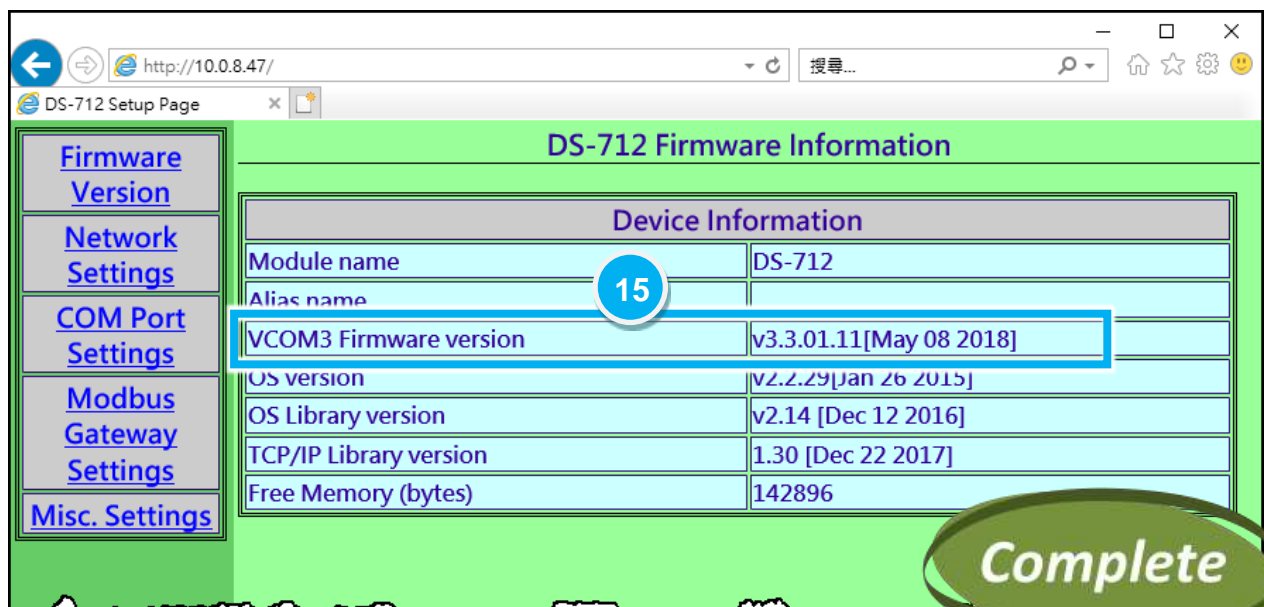
Step 12: Click the name of the DS-700 module.

Step 13: Click the “Web” button.







Step 14: Log in to the web configuration pages for the DS-700.

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



3. Additional Information

Notes:

-  **Note 1:** The DS-7xx.bat file is depending on model name of your DS-700. If wrong DS-7xx.bat file that may cause your DS-700 does not work correctly and you need to update it with a correct firmware again. [back](#)
-  **Note 2:** 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 3:** 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 DS-700 module. [back](#)
-  **Note 4:** 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/>