

PPDS-700-IP67 Quick Start

v1.3, Oct. 2018

What's in the box?

The package includes the following items:



PPDS-700-IP67 x1



Quick Start x1 (This Document)



Waterproof Power Plug x1



Waterproof RJ-45 Plug x5

Related Information

- PPDS-700-IP67 Series Product Page:

http://www.icpdas.com/root/product/solutions/industrial_communication/pds/ppds-700-ip67.html

- Documentation:

http://ftp.icpdas.com/pub/cd/8000cd/napdos/pds/ds_pds-700/document/

- Firmware:

http://ftp.icpdas.com/pub/cd/8000cd/napdos/pds/ds_pds-700/firmware/

- M-7015 Product Page (optional):

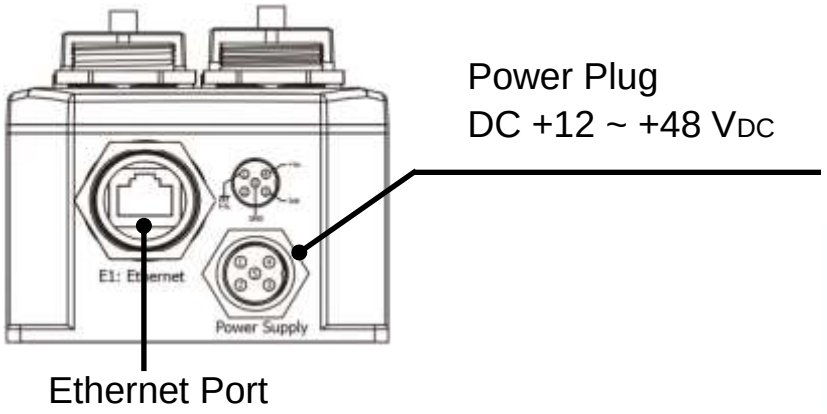
http://www.icpdas.com/products/Remote_IO/m-7000/m-7015.htm

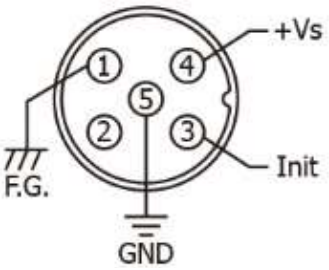
- How to make power and RJ-45 plugs, refer to **Section 2.11 "Waterproofing Attachment Installation"** of user manual for detail information.

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1 Appearance & Pin Assignments

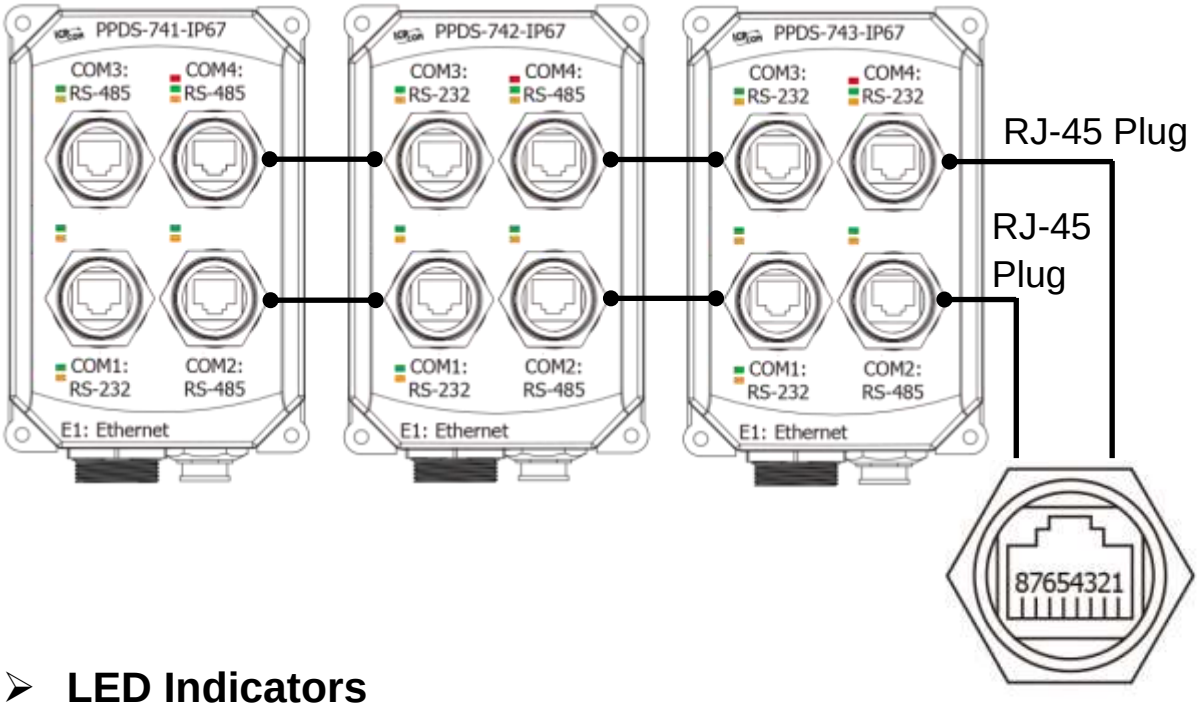
➢ Ethernet Port & Power Supply





Pin	Name
1	F.G.
2	--
3	Init
4	+Vs
5	GND

➢ Serial Port (COM1 ~ COM4)



➢ LED Indicators

Name	Notation	Color
System	Sys.	Red
Ethernet	Link/Act (E1)	Green
	10/100M (E1)	Orange
COM1~COM4	RxD	Green
	TxD	Orange

Pin	5-wire RS-232	2-wire RS-485
1	--	--
2	RTS	--
3	GND	GND
4	TxD	--
5	RxD	DATA+
6	--	DATA-
7	CTS	--
8	--	--

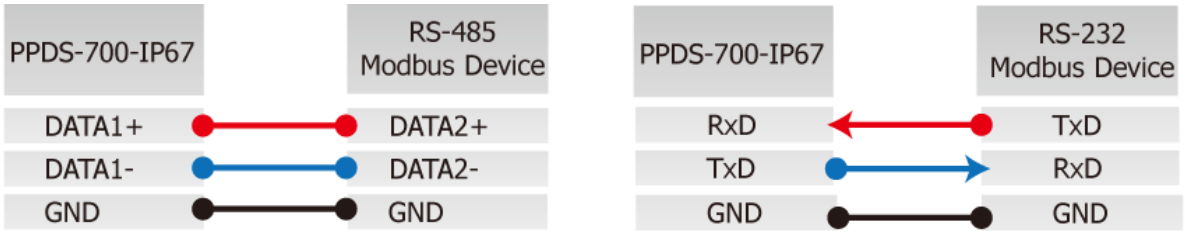
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2 Connecting the Power and Host PC

1) Make sure your PC has workable network settings.
Disable or well configure your Windows firewall and Anti-Virus firewall first, else the **"Search Servers" on page 4** may not work. (Please contact with your system Administrator)

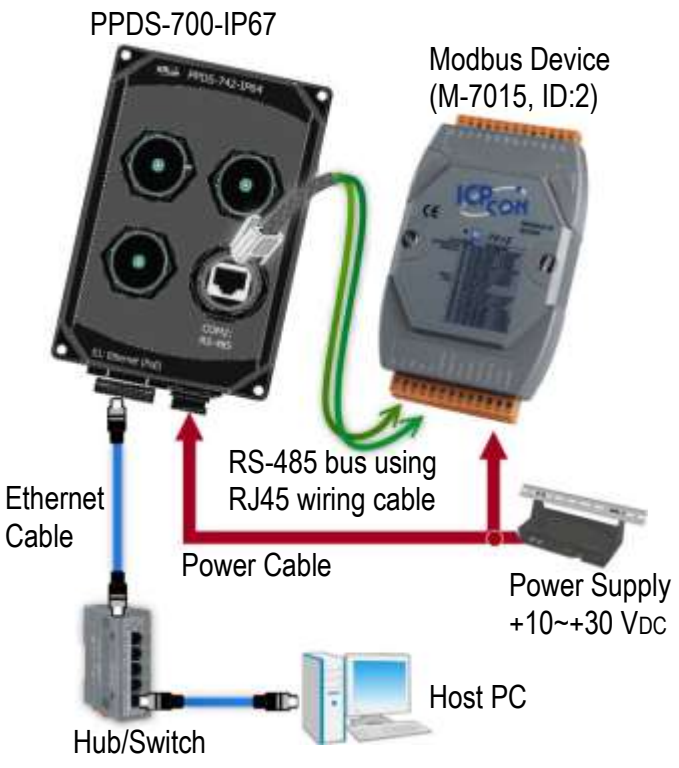
2) Connect both the PPDS-700-IP67 and your PC to the same sub network or the same Ethernet Switch.

3) Connect the Modbus device (e.g. M-7015, optional) to PPDS-700-IP67 on COM2 (RS-485 bus).

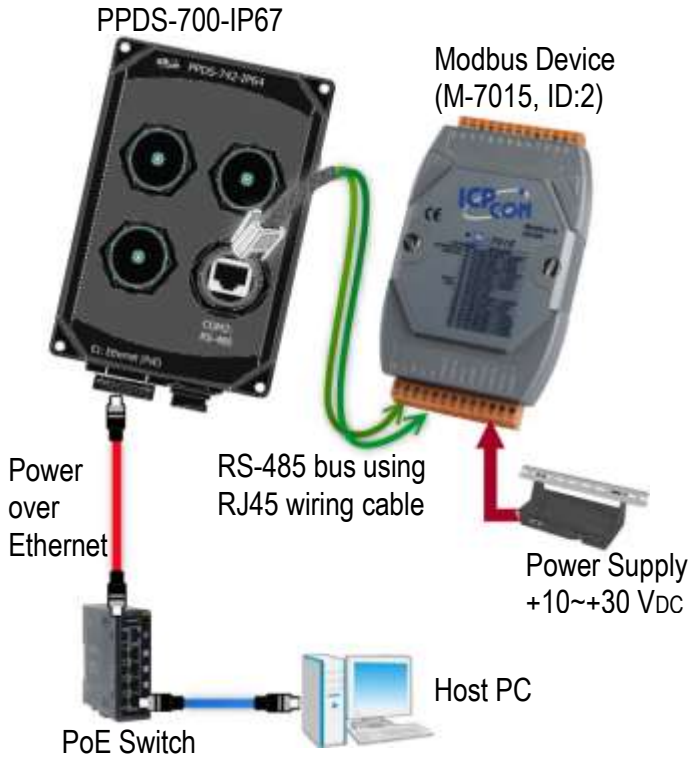


4) Supply power to the PPDS-700-IP67 and Modbus device (e.g. M-7015, optional)
PPDS-700-IP67: PoE or +12 ~ +48 V_{DC} power.

Non-PoE Power Supply



PoE Power Supply



Notes:

1. **The wiring and supply power method depends on your Modbus device.**
2. **Refer to the pin assignments of PPDS-700-IP67 to make RJ45 wiring and power cables.**

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3 Configuring Network Settings

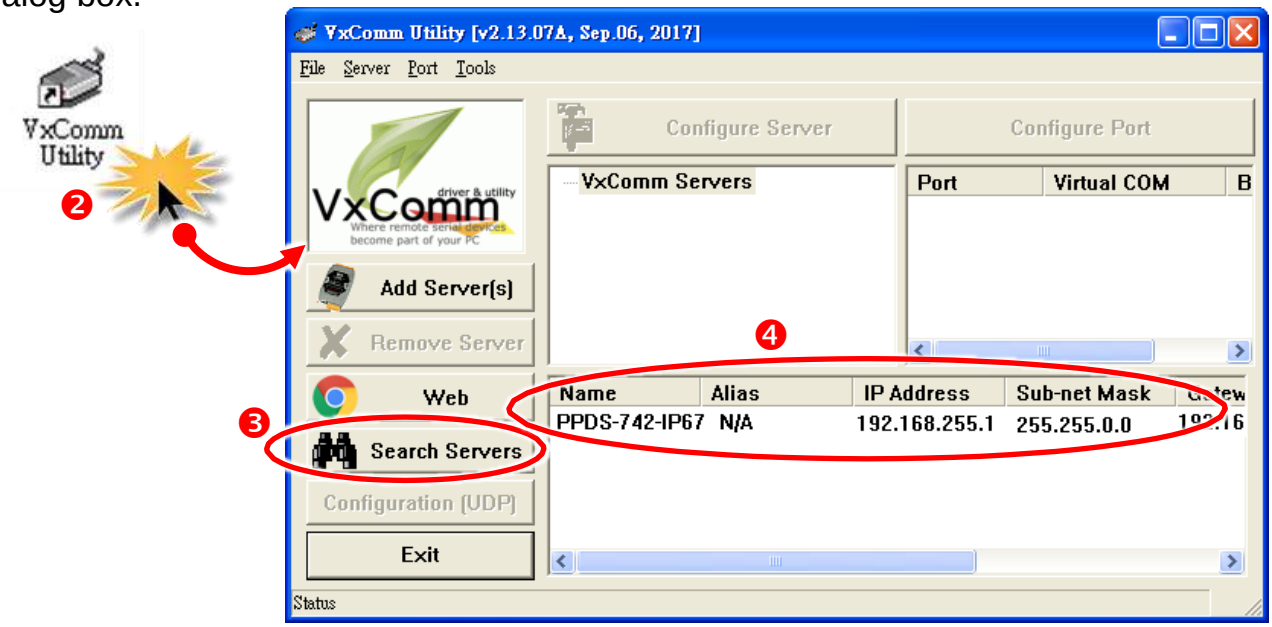
1) Install VxComm Utility, which can be obtained from the ICP DAS web site or FTP site:



http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/vxcomm_driver/windows/

ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/vxcomm_driver/windows/

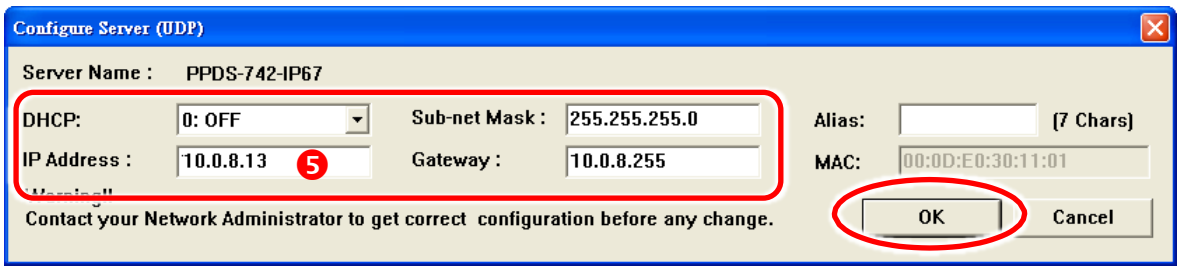
2) Double click the VxComm Utility shortcut on the desktop.
3) Click the **"Search Servers"** button to search your PPDS-700-IP67.
4) Double click the name of PPDS-700-IP67 to open the "**Configure Server (UDP)**" dialog box.



Factory Default Settings of PPDS-700-IP67:

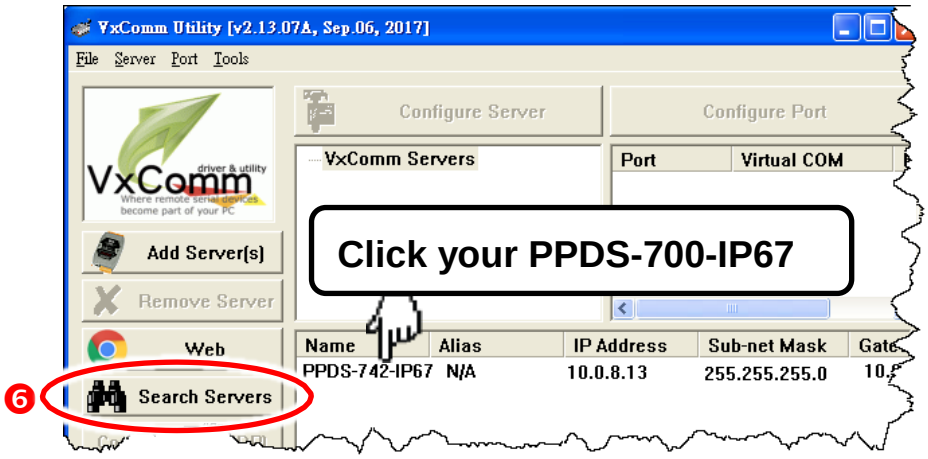
IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

5) Contact your Network Administrator to obtain a correct network configuration (such as **IP/Mask/Gateway**). Enter the network settings and then click "**OK**". The PPDS-700-IP67 will use the new setting 2 seconds later.



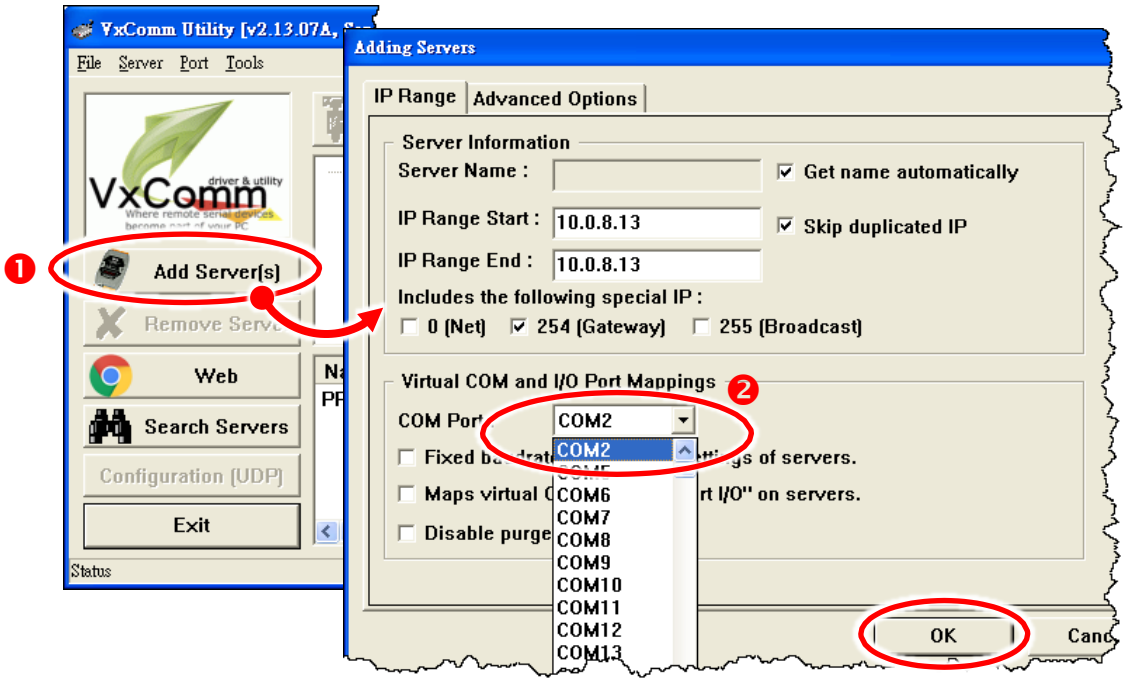
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6) Wait 2 seconds and then click the "**Search Servers**" button again to ensure the PPDS-700-IP67 is working well with new configuration.

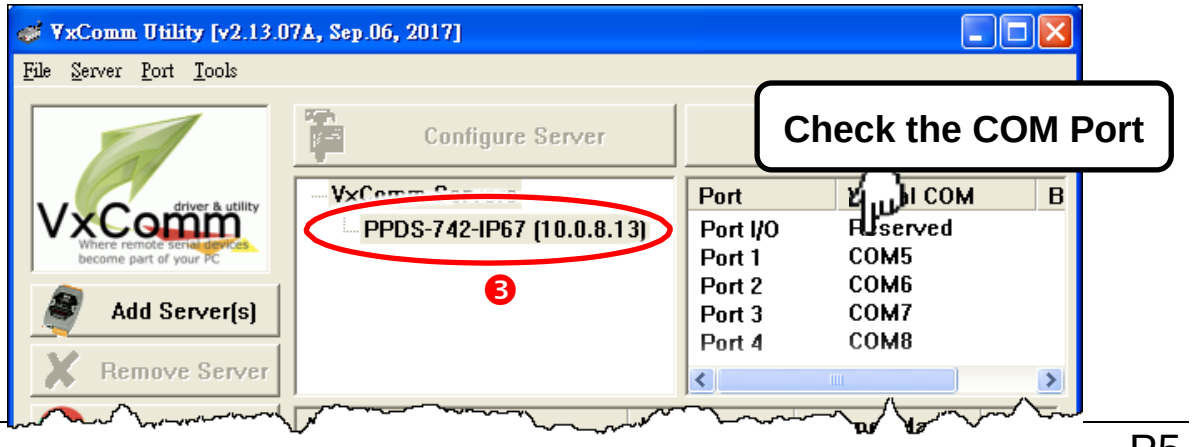


4 Configuring Virtual COM Ports

1) Click the "**Add Server[s]**" button.
2) Assign a COM Port number and click "**OK**" to save your settings.

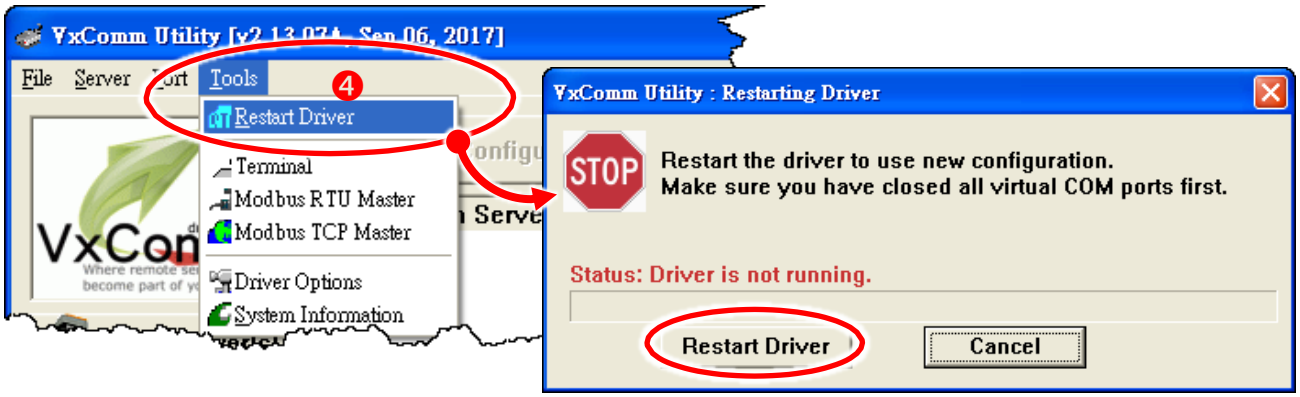


3) Click on PPDS-700-IP67 name and check the virtual COM port mappings on the PC.



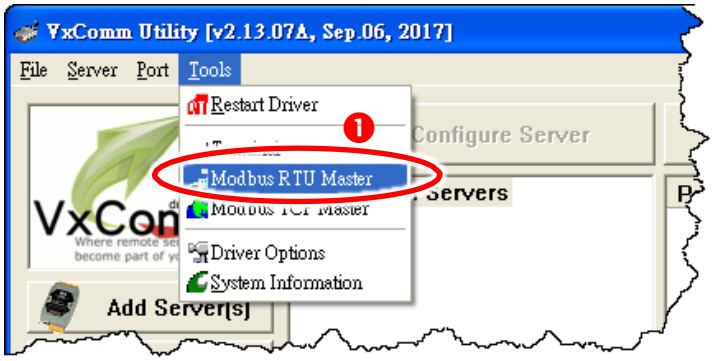
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4) Click "**Tools**" → "**Restart Driver**", and click the "**Restart Driver**" button.



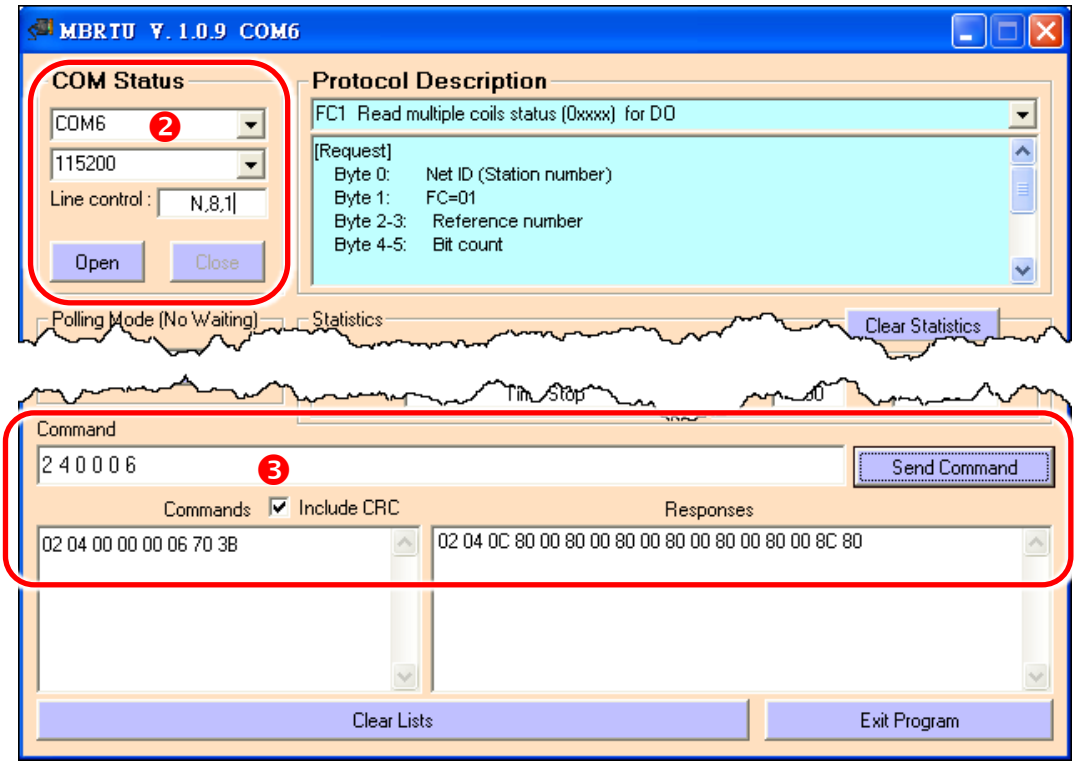
5 Test Modbus Device via Virtual COM Ports

1) Select the **"Modbus RTU Master"** item from the **"Tools"** menu to open the Modbus RTU Master Utility.



2) Select your virtual COM port and baud rate (e.g. **COM6/115200**) on PPDS-700-IP67, and then click the "**Open**" button.

3) Refer to "**Protocol Description**" and type the command in the command field then click the **"Send command"** button. If the response data is correct, it means the test is success.



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6 Modbus/TCP to Modbus/RTU Gateway

1) Open web browser, type the URL address of the PPDS-700-IP67 and press **"Enter"** to connect to the PPDS-700-IP67.



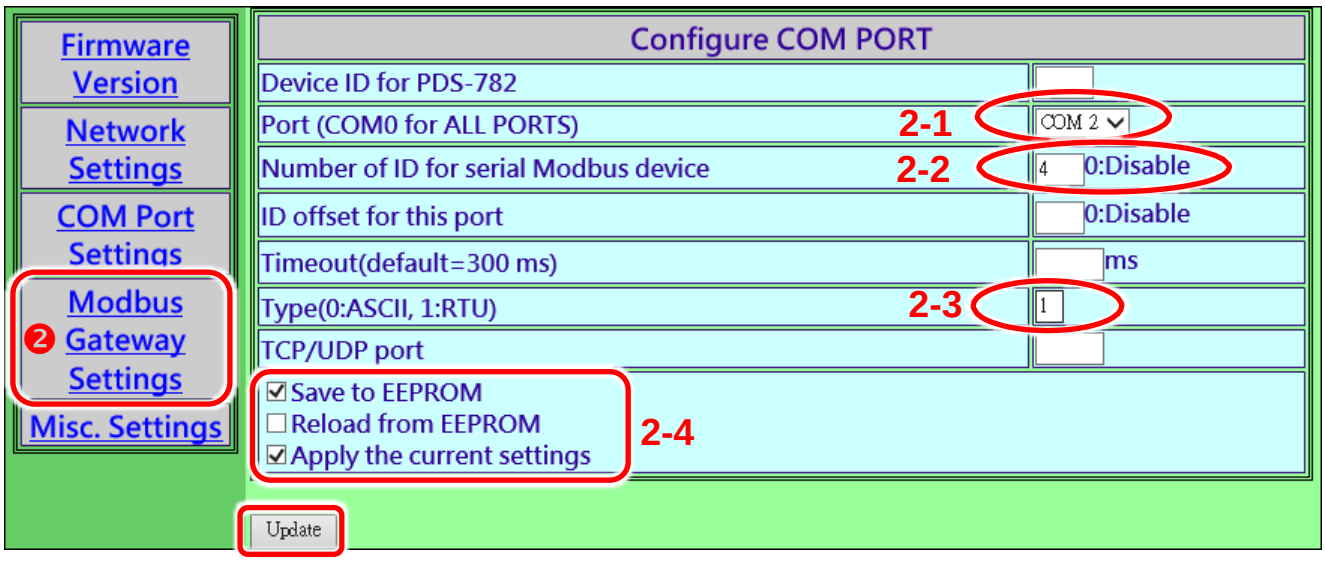
2) Click the "**Modbus Gateway Setting**" in the web page to configure the COM ports, as follows:

2-1: Select **appropriate COM Port** (e.g. COM2).

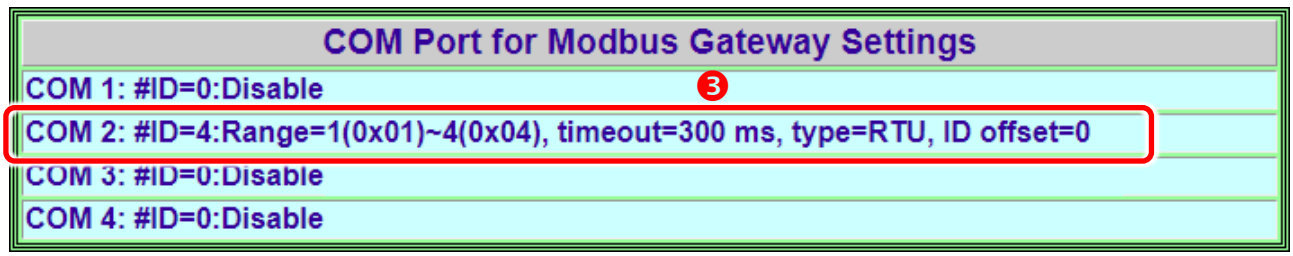
2-2: Assign a **Numbers of Modbus device** (e.g. 4).

2-3: Select **Modbus type** (e.g. 1 "Modbus RTU").

2-4: Checked the "**Save to EEPROM**" and "**Apply the current setting**" and then click the "**Update**" button to update it to PPDS-700-IP67.

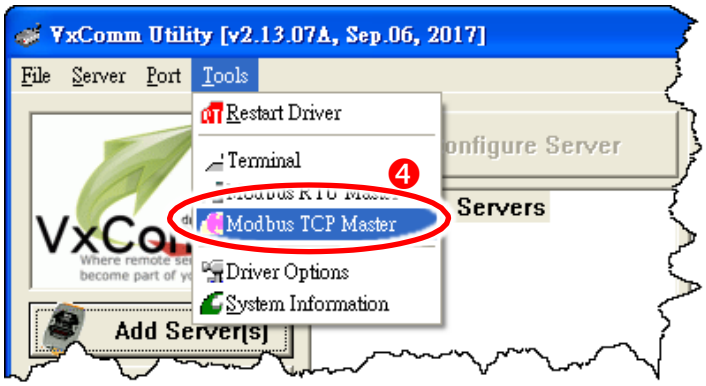


3) Check the COM Port for Modbus gateway settings.



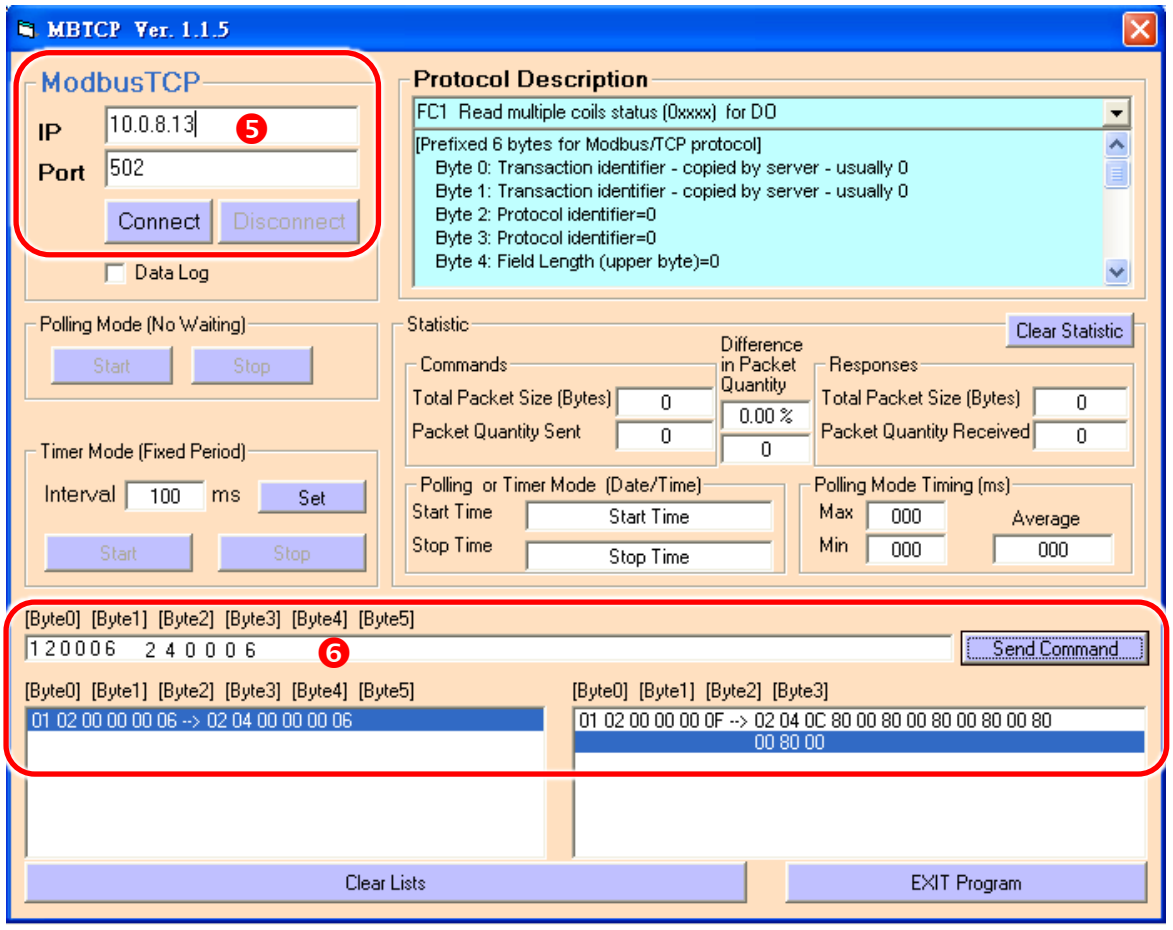
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4) Back to VxComm Utility, select the **"Modbus TCP Master"** item from the **"Tools"** menu to open the Modbus TCP Master Utility.



5) Enter the **IP address of PPDS-700-IP67** and then click "**Connect**" button to connect the PPDS-700-IP67.

6) Refer to "**Protocol Description**" and type command in the command field then click the "**Send Command**" button. If the response data is correct, it means the test is success.



Note: The Modbus command settings depends on your Modbus device.

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