

PPDS-700-MTCP Series Quick Start

v1.5, Aug. 2018

What's in the box?

In addition to this guide, the package includes the following items:

PPDS-700-MTCP PPDSM-700-MTCP


or


PPDS(M)-700-MTCP Series x 1



Quick Start x 1 (This Document)

For PPDS-700-MTCP Only



Plastic Rack x1



CA-0910 Cable x1



Screw Driver x1



PPDS(M)-720-MTCP : 16 pcs

Other PPDS(M)-700-MTCP : 32 pcs

Pin Terminal

Related Information

- PDS Series Product Page:
http://www.icpdas.com/products/Industrial/pds/PDS-700_Series.htm

- 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/

- MDR-20-24, NS-205,NS-205PSE Product Page (optional):
http://www.icpdas.com/products/Accessories/power_supply/power_list.htm
http://www.icpdas.com/products/Switch/industrial/industrial_list.htm

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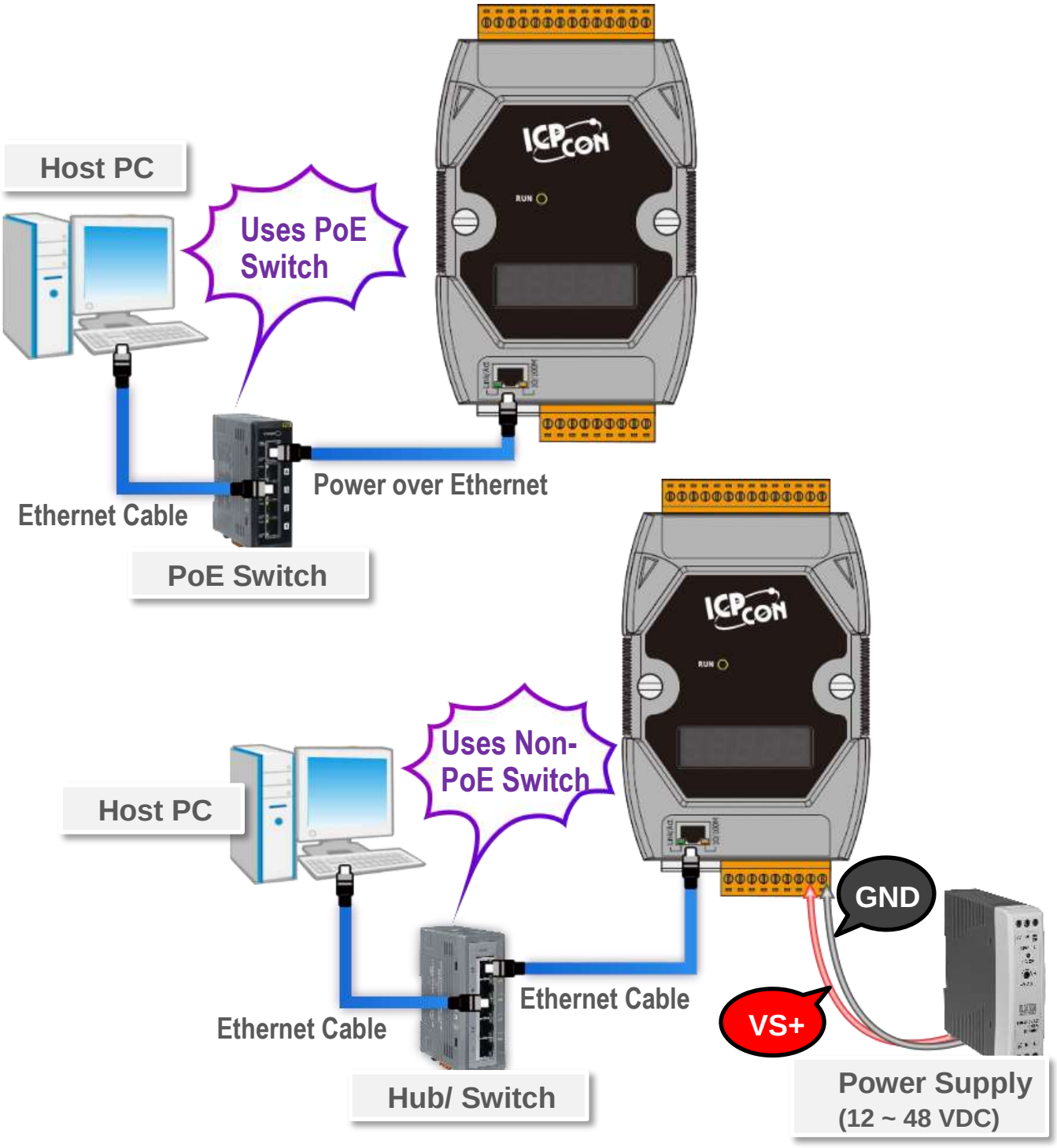
1 Connecting the Power and Host PC

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 Chapter 3** may not work. (Please contact with your system Administrator)

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

3) Supply power (**PoE or +12 ~ +48 VDC**) to the PPDS-700-MTCP.



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2 Connecting the Modbus Device

1) Connect the Modbus device (e.g., M-7055-D, Optional) to the COM2 (RS-485 bus) on the PPDS-700-MTCP.

☑ **RS-485 Wiring**

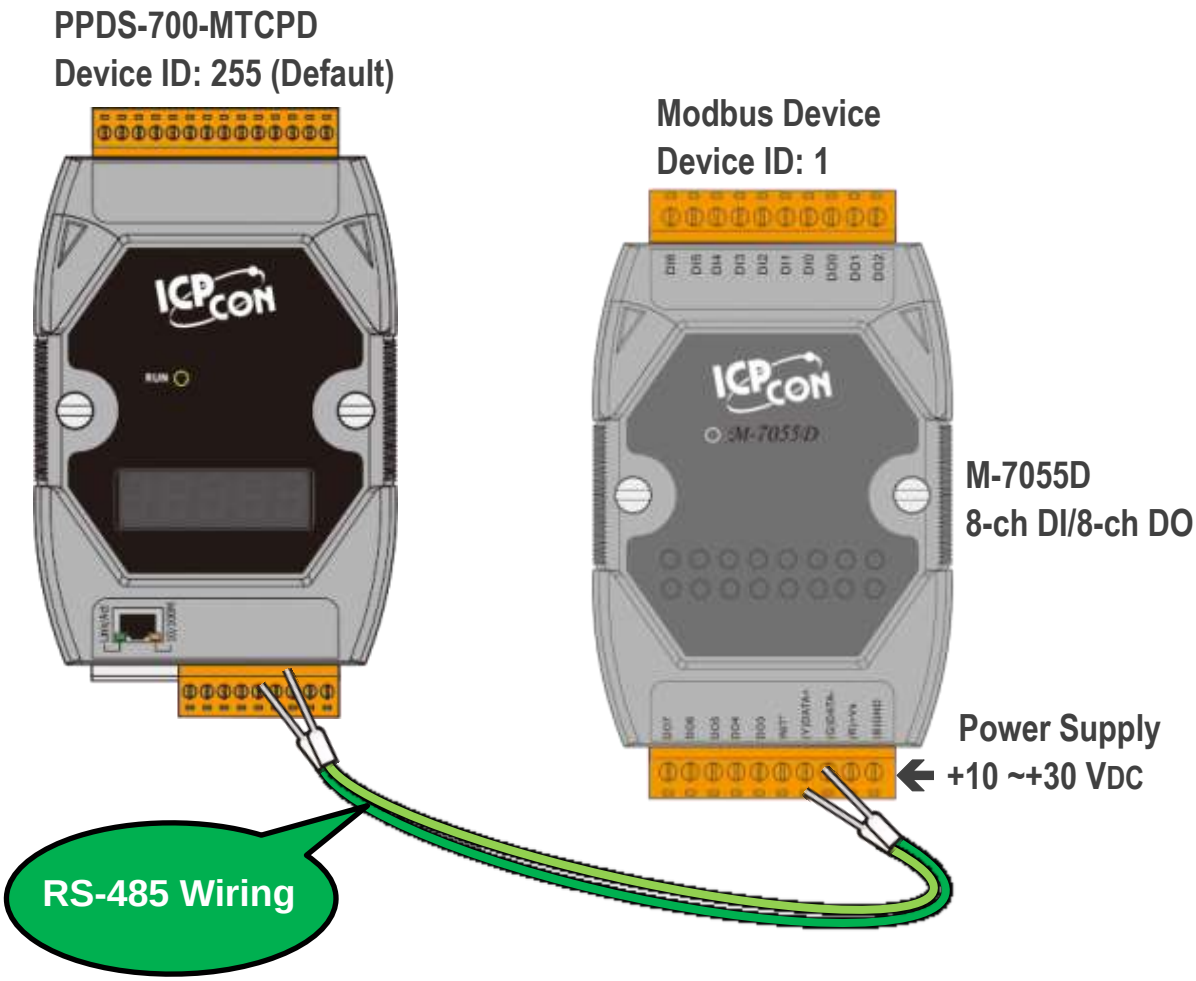
PPDS-700-MTCP (COM2)		RS-485 Modbus Device
DATA1+	⟷	DATA2+
DATA1-	⟷	DATA2-
GND	⟷	GND

☐ RS-232 Wiring

PPDS-700-MTCP (COM1)		RS-232 Modbus Device
RxD	⟵	TxD
TxD	⟶	RxD
GND	⟷	GND

2) Supply power (+10 ~ +30 VDC) to the Modbus device (e.g., M-7055D, Device ID: 1).

⚠ **Note that wiring method and supply power depends on your Modbus device.**



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3 Configuring Network Settings



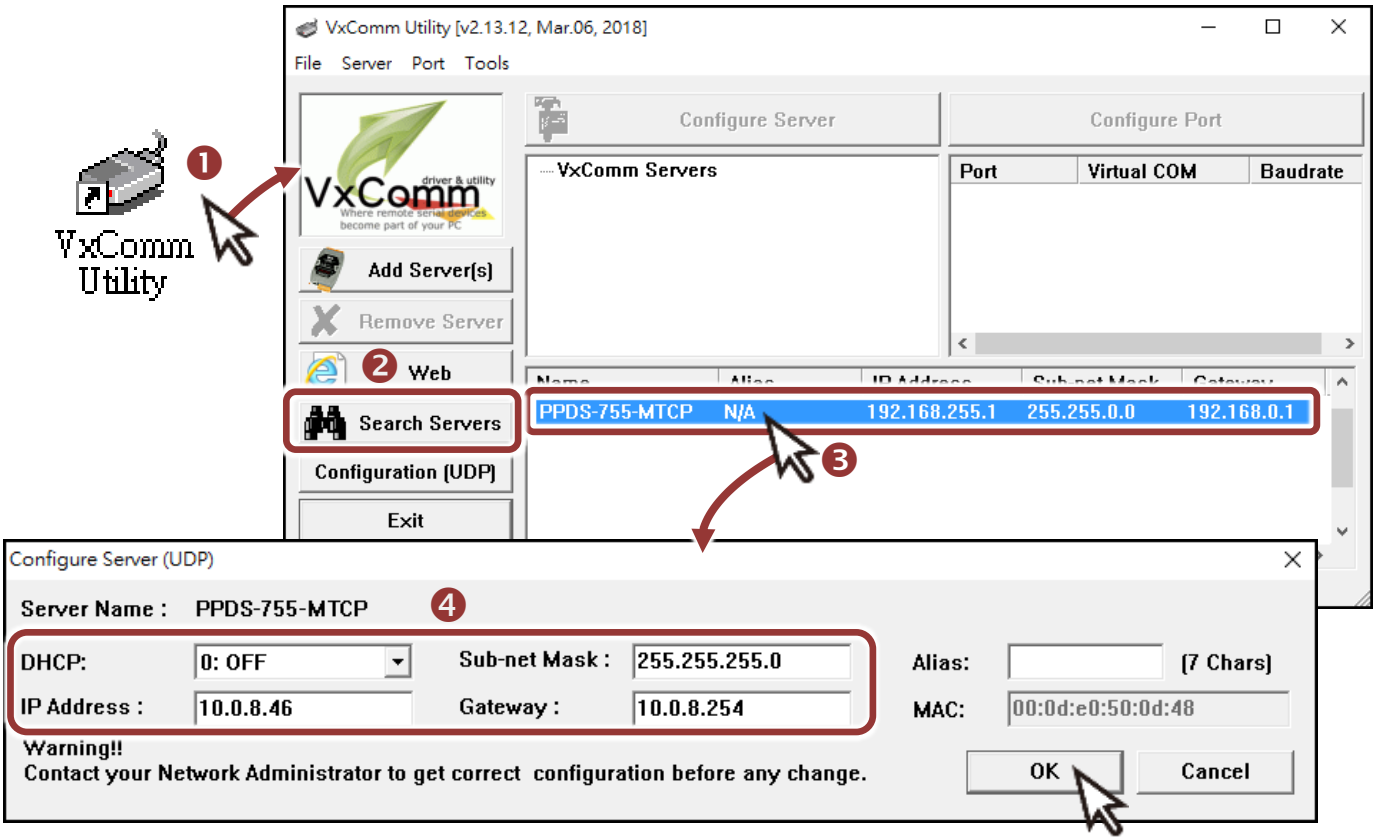
1) Install the VxComm Utility, which can be obtained from the web site:
http://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/vxcomm_driver/windows/

2) Double click the VxComm Utility shortcut on the desktop.

3) Click the **"Search Servers"** to search your PPDS-700-MTCP.

4) Double click the **name of PPDS-700-MTCP** to open the "Configure Server (UDP)" dialog box.

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



Factory Default Settings of PPDS-700-MTCP:

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

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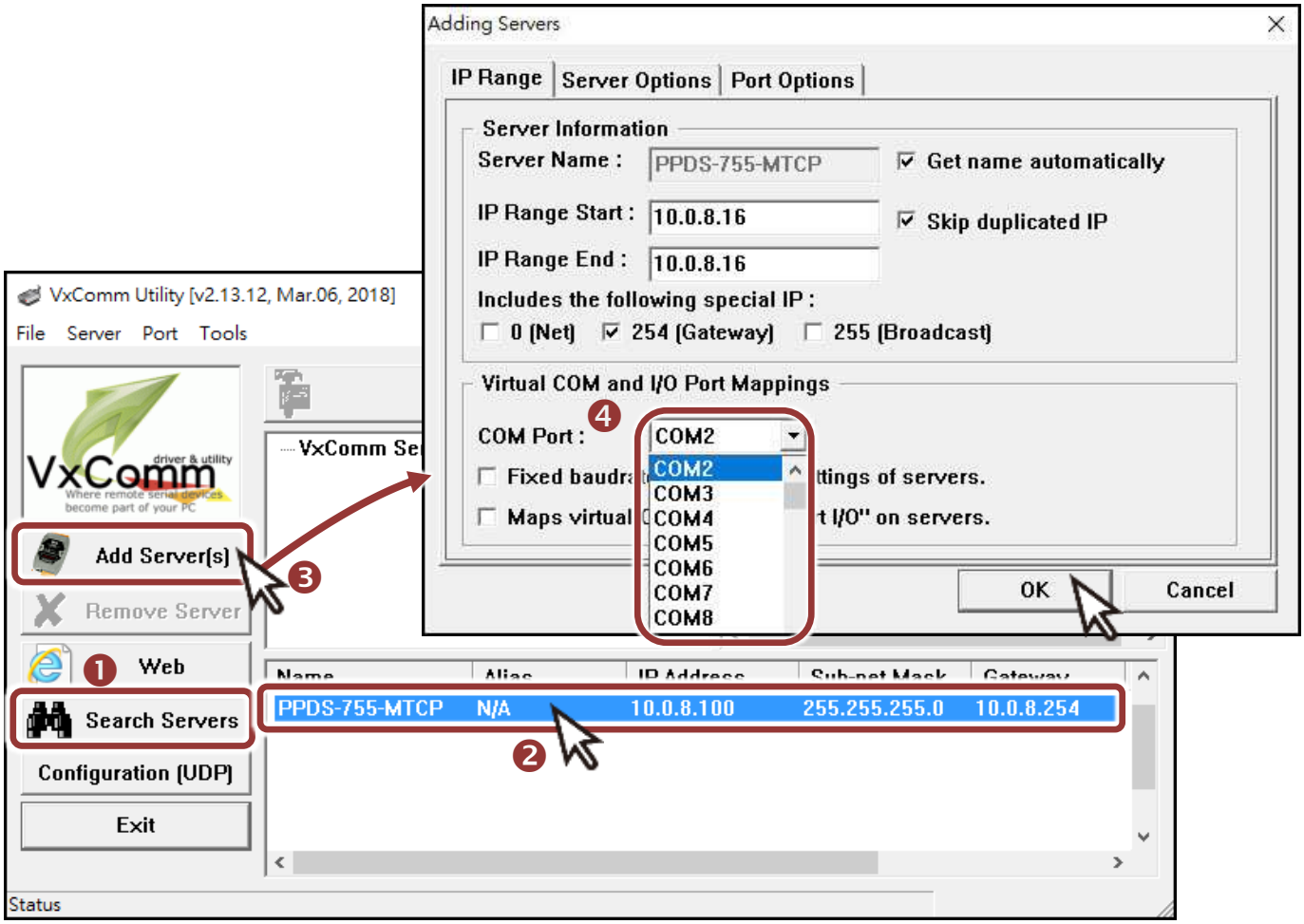
4 Configuring Virtual COM Ports

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

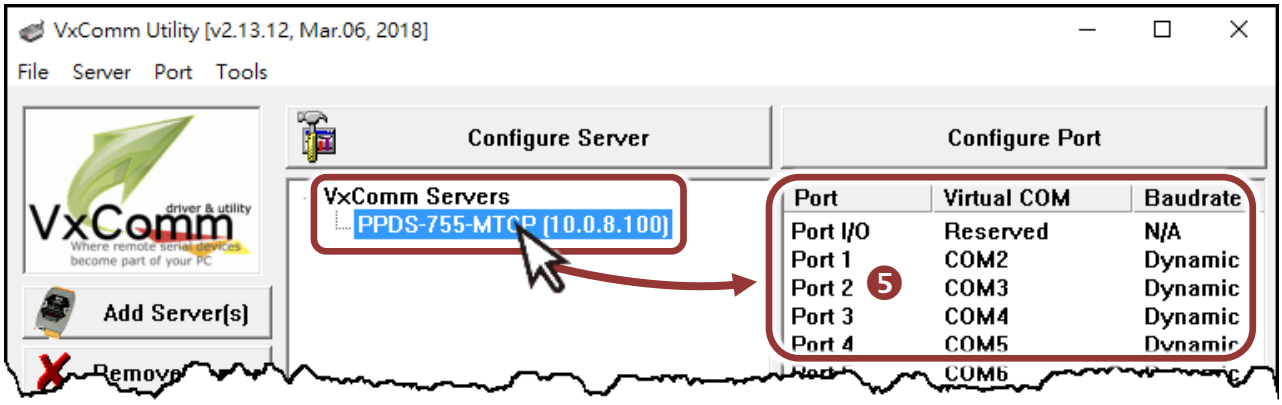
2) Click the name of PPDS-700-MTCP to select it.

3) Click the **"Add Server[S]"** button.

4) Assign a COM Port number and click **"OK"** to save your settings.



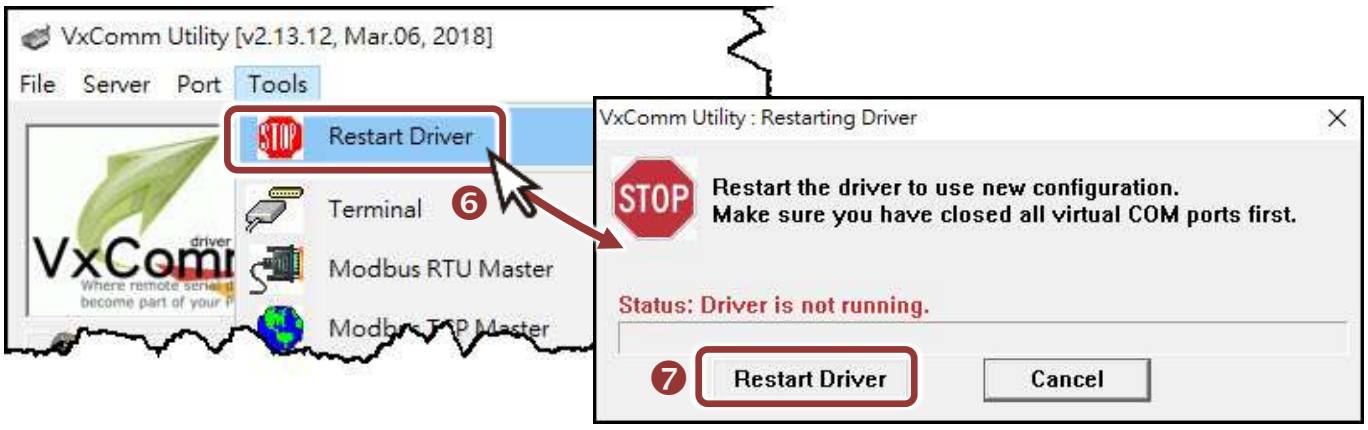
5) Click on PPDS-700-MTCP name and check the virtual COM Port mappings on the PC.



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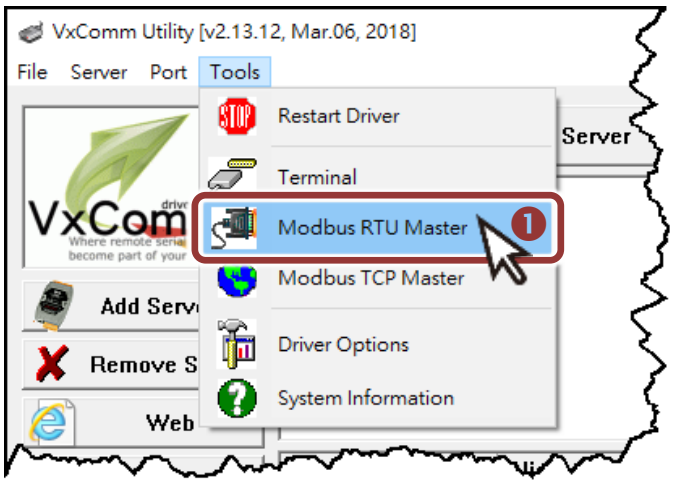
6) Click the **“Restart Driver”** item in the **“Tools”** menu to display the “VxComm Utility: Restarting Driver” dialog box.

7) Click the **“Restart Driver”** button.

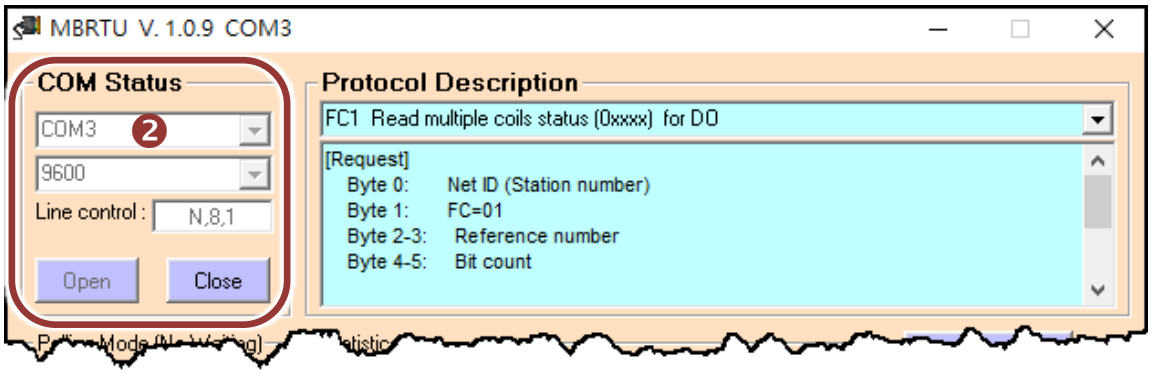


5 Testing Modbus Device through Virtual COM Port

1) In the VxComm Utility, click the **“Modbus RTU Master”** option from the **“Tools”** menu to open the Modbus RTU Master Utility.

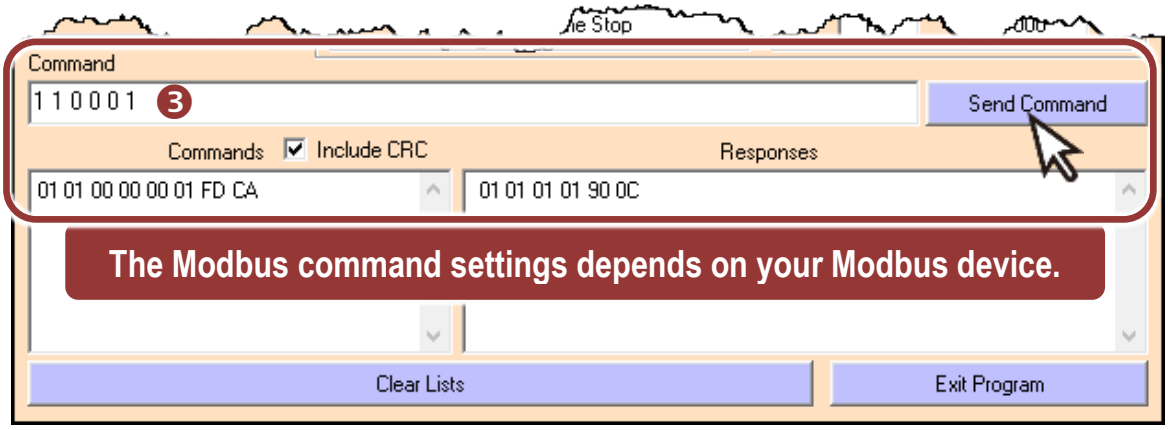


2) In the Modbus RTU Modbus Utility, select your **virtual COM Port** and **Baud Rate/Data Format (default: 9600/N, 8, 1) on PPDS-700-MTCP**, and then click the **“Open”** button.



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

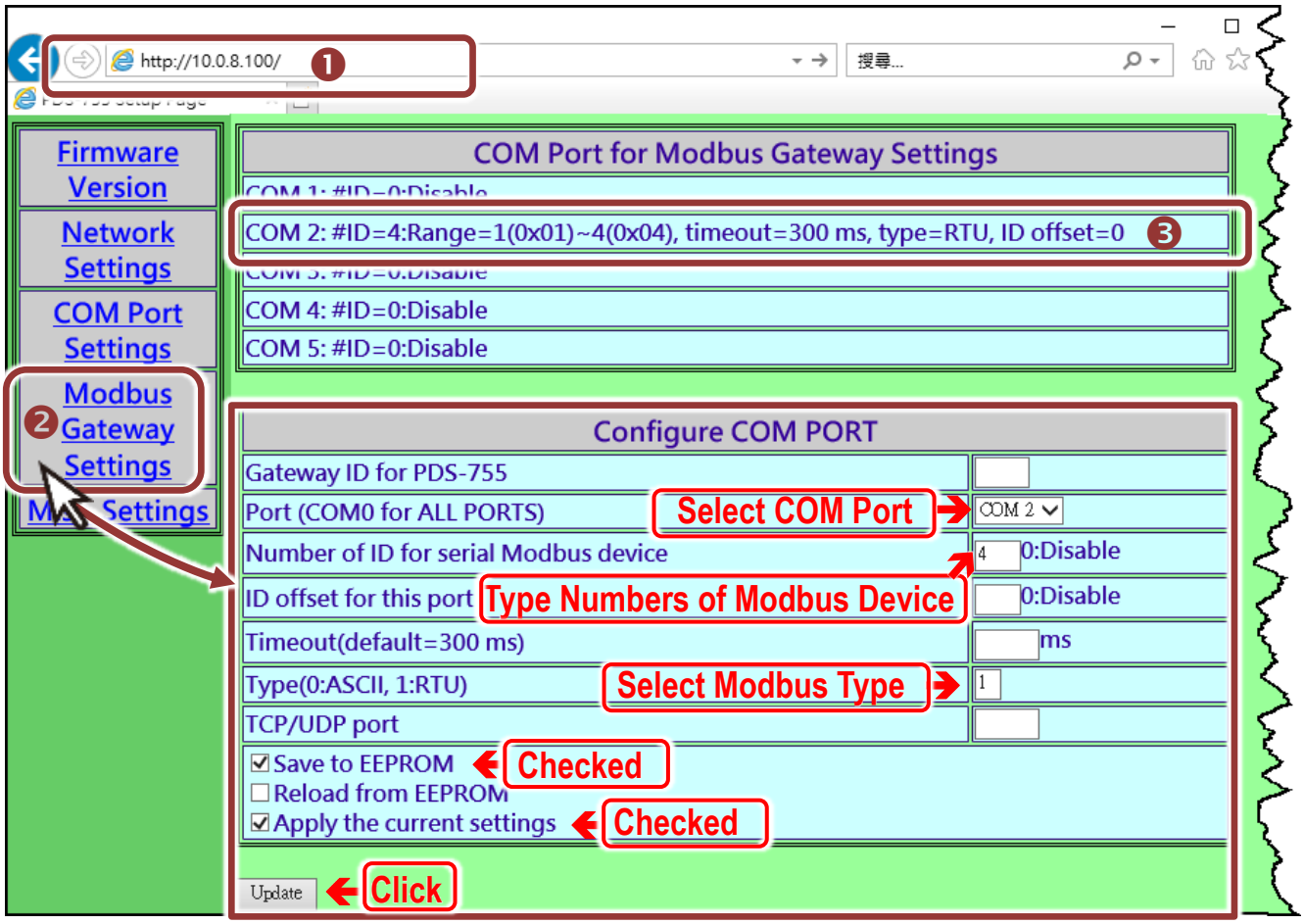


6 Modbus/TCP to Modbus/RTU Gateway

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

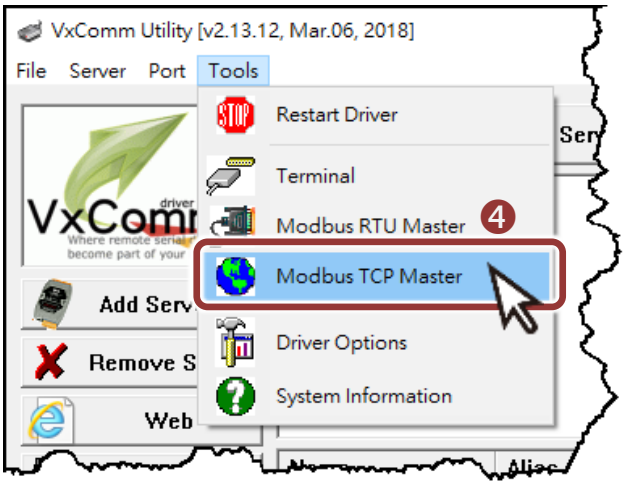
2) Click the **“Modbus Gateway Setting”** in the web page to **configure the COM Ports**.

3) Check the COM Port for Modbus setting.

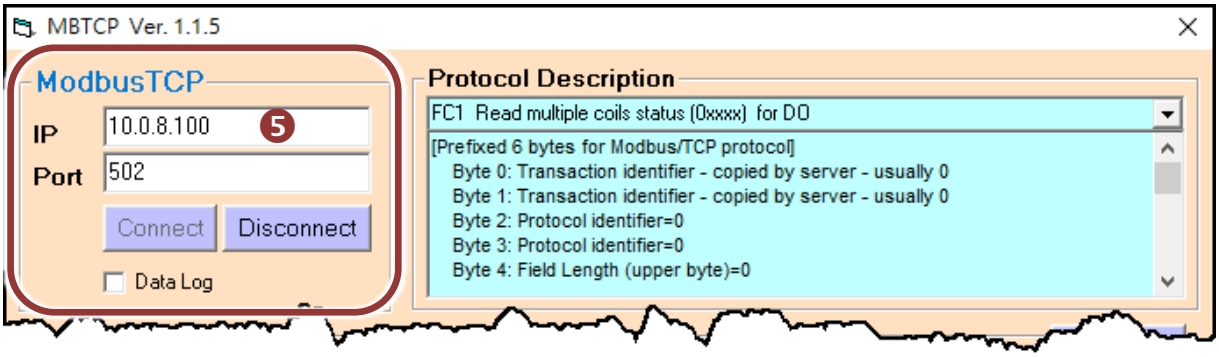


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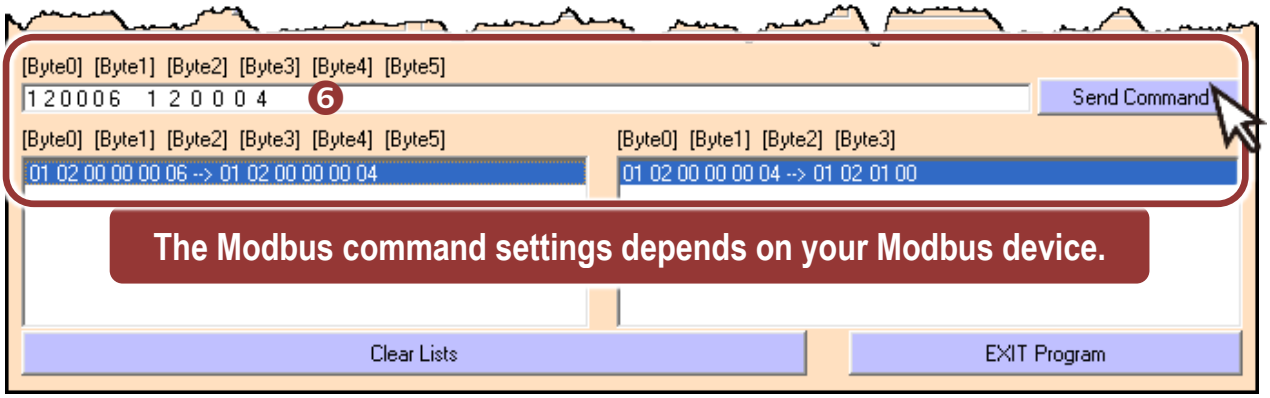
4) In the VxComm Utility, click the **"Modbus TCP Master"** option from the **"Tools"** menu to open the Modbus TCP Master Utility.



5) In the Modbus TCP Master Utility, **type the IP address of PPDS-700-MTCP** and click the **"Connect"** button.



6) Refer to **"Protocol Description"** and **type the Modbus 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 flash protection function is disabled for factory default settings. User can modify the program or update the firmware. If you want to enable flash protection function, refer to **Section 2.10 Flash Protection Function** of PDS-700 user manual.
The location of the download addresses are shown below:

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

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