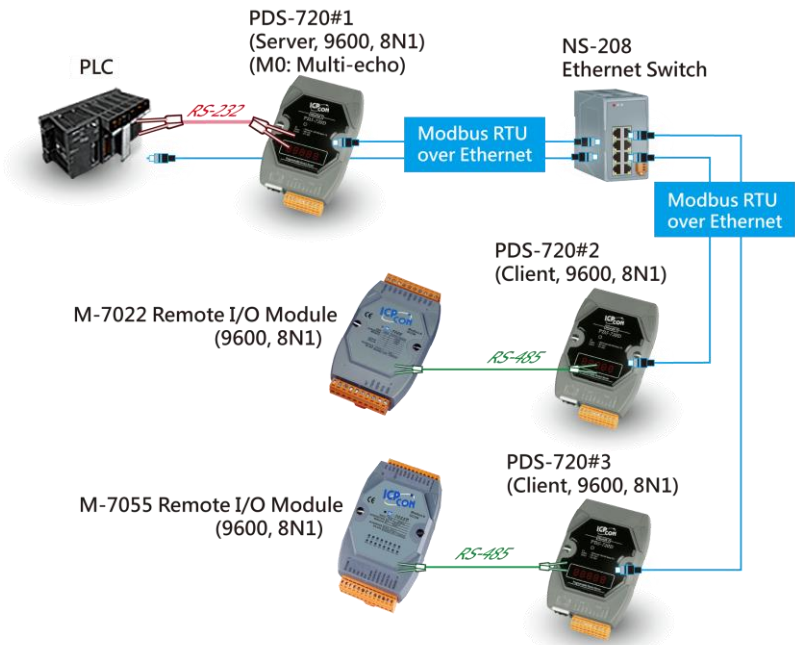


分類/Classification	<input type="checkbox"/> tDS	<input type="checkbox"/> tGW	<input type="checkbox"/> PETL/tET/tPET	<input checked="" type="checkbox"/> DS/PDS/PPDS	<input type="checkbox"/> tM-752N
	<input type="checkbox"/> I/O Card	<input type="checkbox"/> VXC Card	<input type="checkbox"/> VxComm	<input type="checkbox"/> Other	
作者/Author	Tammy	日期/Date	2015-06-26	編號/No.	FAQ-042

Q: How do I access multiple distributed serial devices through the Ethernet by using a serial master?

A: The following solution describes how to configure several PDS-700 modules to create a many-to-one pair-connection system. Once the configuration is complete, the serial master (e.g., a PLC) will then be able to easily access the various serial devices through the Ethernet. A detailed description of the configuration is provided below.



The following are examples of Pair-connection Settings:

Model		Port Settings (Default)				Pair-connection Settings	
		COM Port	Baud Rate	Data Format	Operation Mode	Remote Server IP	Remote TCP Port (Default)
Server Mode	PDS-720 #1	COM1	9600	8N1	M0	-	-
Client Mode	PDS-720 #2	COM1	9600	8N1	M0	IP Address of PDS-720 #1	10001
ClientMode	PDS-720 #3	COM1	9600	8N1	M0	IP Address of PDS-720 #1	10001

Step 1: Install the **VxComm Utility** on the Host PC and then run the Utility to search for any PDS-700 series modules connected to the network.

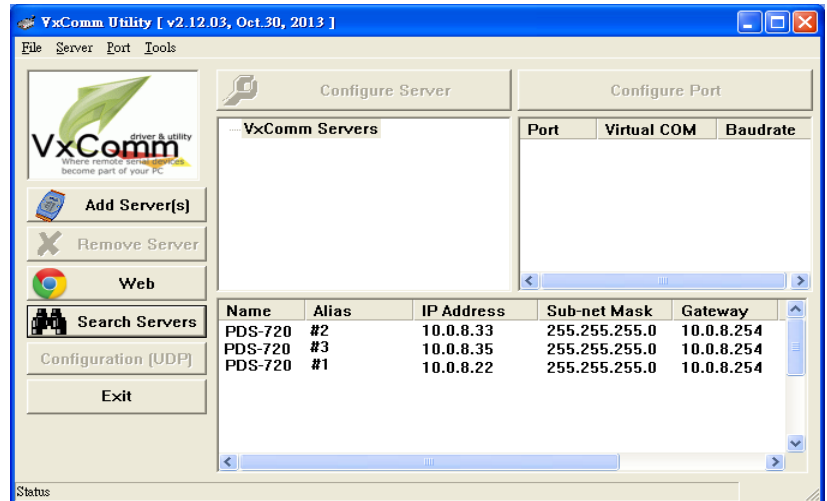


[Download the VxComm Utility](#)

Step 2: Configure the correct network settings for each of the required PDS-700 series modules. Refer to **Chapter 5 “Configuring Ethernet Settings”** in the PDS-700 Quick Start Guide for more details.

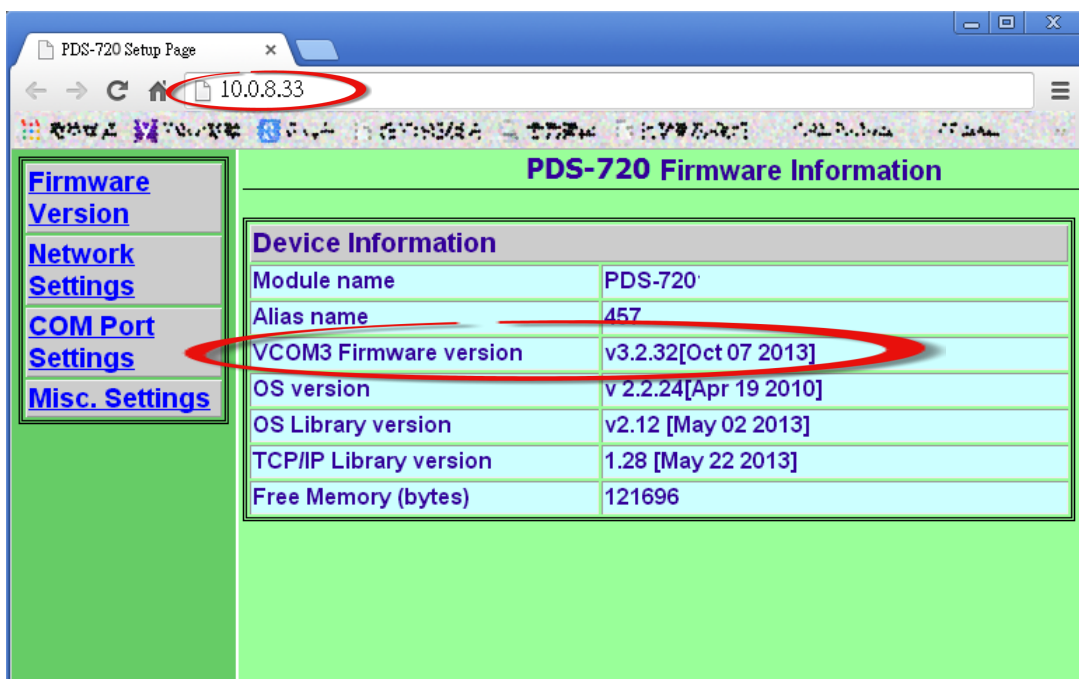


[Download the Quick Start Guide.](#)



Step 3: Enter the IP address of the PDS-720 #1, PDS-720 #2 or PDS-720 #3 **modules** in the address bar of a browser (such as IE, Chrome or Firefox, etc.), or click the **“Web”** button in the VxComm Utility to log in to the web configuration page. (Repeat this step for each module)

Step 4: Check that the **firmware version for the module is v3.2.32[Oct 07 2013] or later** in the “VCOM3 Firmware Version” field for the PDS-720 #1, PDS-720 #2 or PDS-720 #3. (Repeat this step for each module)



Step 5: Follow the procedure described below to configure the **Pair-connection (Server Mode)** on the **Web Server for the PDS-720 #1 module**.

1. Click the **“COM Port Settings”** tab to display the **“Configure COM PORT”** page.
2. Select the appropriate **COM Port number, Baud Rate and Data Format** settings from the relevant drop down options (e.g., **“COM1”, “9600”, “8”, “None”** and **“1”**).
3. Click the **“M0 (Transparent Mode)”** option button in the **“Operation Mode”** field.
4. Check the **“Save current settings to EEPROM”** and **“Apply current settings”** checkboxes, and then click the **“SET COM PORT”** button to complete the configuration.
5. Click the **“Set Remote VCOM3 connection”** link to proceed to the **“PDS-720 Remote Vcom3 connection Setup Page”** (Pair-connection settings).

6. On the **“PDS-720 Remote Vcom3 Connection Setup Page”**, confirm that the **Local COM port/Remote COM port** for the **PDS-720 #1** is show as **“None”**.

Step 6: Follow the procedure described below to configuring the **Pair-connection (Client Mode)** on the **Web Server for the PDS-720 #2 and PDS-720 #3 modules.**

1. Click the **“COM Port Settings”** tab to display the Configure COM PORT page.
2. Select the appropriate **COM Port number, Baud Rate and Data Format** settings from the relevant drop down options (e.g., “COM1”, “9600”, “8”, “None” and “1”).
3. Click the **“M0 (Transparent Mode)”** option button in the “Operation Mode” field.
4. Check the **“Save current settings to EEPROM”** and **“Apply current settings”** checkboxes, and then click the **“SET COM PORT”** button to complete the configuration.
5. Click the **“Set Remote VCOM3 connection”** link to proceed to the “PDS-720 Remote Vcom3 connection Setup Page” (Pair-connection settings).

The screenshot shows the 'Configure COM PORT' web interface. On the left is a navigation menu with links for 'Firmware Version', 'Network Settings', 'COM Port Settings' (highlighted with a red circle and '1'), and 'Misc. Settings'. The main content area is titled 'Configure COM PORT' and contains the following fields:

- Port (COM0 for ALL PORTS): COM 1 (dropdown)
- Baud Rate: 9600 (dropdown, highlighted with a red circle and '2')
- Data Bits: 8 (dropdown)
- Parity: None (dropdown)
- Stop Bits: 1 (dropdown)
- Rx FIFO Trigger Level: 1 (dropdown)
- Data Buffered Delay Time(DBDT): [] ms
- End Char: [] (hex)
- Operation Mode: M0 (Transparent Mode) (radio button selected, highlighted with a red circle and '3')
- Slave Timeout: [] ms
- Master Ack Timeout(MAT): [] ms, 0:DISABLE
- Save current settings to EEPROM (checkbox checked)
- Apply current settings (checkbox checked)
- SET COM PORT button (highlighted with a red circle and '4')
- Set Remote VCOM3 connection link (highlighted with a red circle and '5')

- On the “PDS-720 Remote Vcom3 Connection Setup Page”, click the “**Add COM**” option button, and then **enter the COM port for the PDS-720 #2** that is to be used (e.g., COM 1). Enter the appropriate **IP address and TCP Port for the PDS-720 #1** settings in the relevant fields (e.g., “IP: 10.0.8.22” and “port: 10001”).
- Check the “**Save to EEPROM**” checkbox and then click the “**submit**” button to update the configuration.

The screenshot shows the "PDS-720 Remote Vcom3 connection Setup Page" with a sidebar on the left containing links for "Firmware Version", "Network Settings", "COM Port Settings", and "Misc. Settings". The main content area has a table for "Local COM port / Remote COM port" with a row for port #0 set to "NONE". Below the table, there are radio buttons for "Add COM", "Delete #", and "Delete ALL". The "Add COM" option is selected, and its form fields are highlighted with a red box and a red circle containing the number 6. The fields are: "Add COM" (set to 1), "connect to COM" (empty), "@ IP=" (set to 10.0.8.22), and "cmd port=" (set to 10001). There are also checkboxes for "UDP", "MODBUS gateway", "RTU", and "ASCII". Below this, another red box and red circle containing the number 7 highlight the "Save to EEPROM" checkbox, which is checked, and the "submit" button.

- Confirm that the newly created for pair-connection settings are show in the **Local COM Port/Remote COM port** area.

This screenshot shows the same setup page after configuration. The table for "Local COM port / Remote COM port" now has a row for port #0 with the text "COM 1 <-----> TCP @ 10.0.8.22:10001". This row is highlighted with a red box and a red circle containing the number 8. The "Add COM" radio button remains selected, and the "Save to EEPROM" checkbox is still checked.

- Reboot the PDS-720 #2 module** to complete the configuration.
- Repeat Steps 1 to 9 (Pages 4 and 5) for the PDS-720 #3 module.