GW-7663 Quick Start

This Quick Start will provide information needed to get started with GW-7663. Please also consult the User Manual for detailed information on the setup and use of GW-7663.

What's In the Box ?

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



GW-7663 Module



Product CD

Technical Support

- **GW-7663 User Manual**
  CD: \fieldbus_cd\profinet\converter\gw-7663\manual\
  ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profinet/gateway/gw-7663/manual/

- **PROFINET Website**

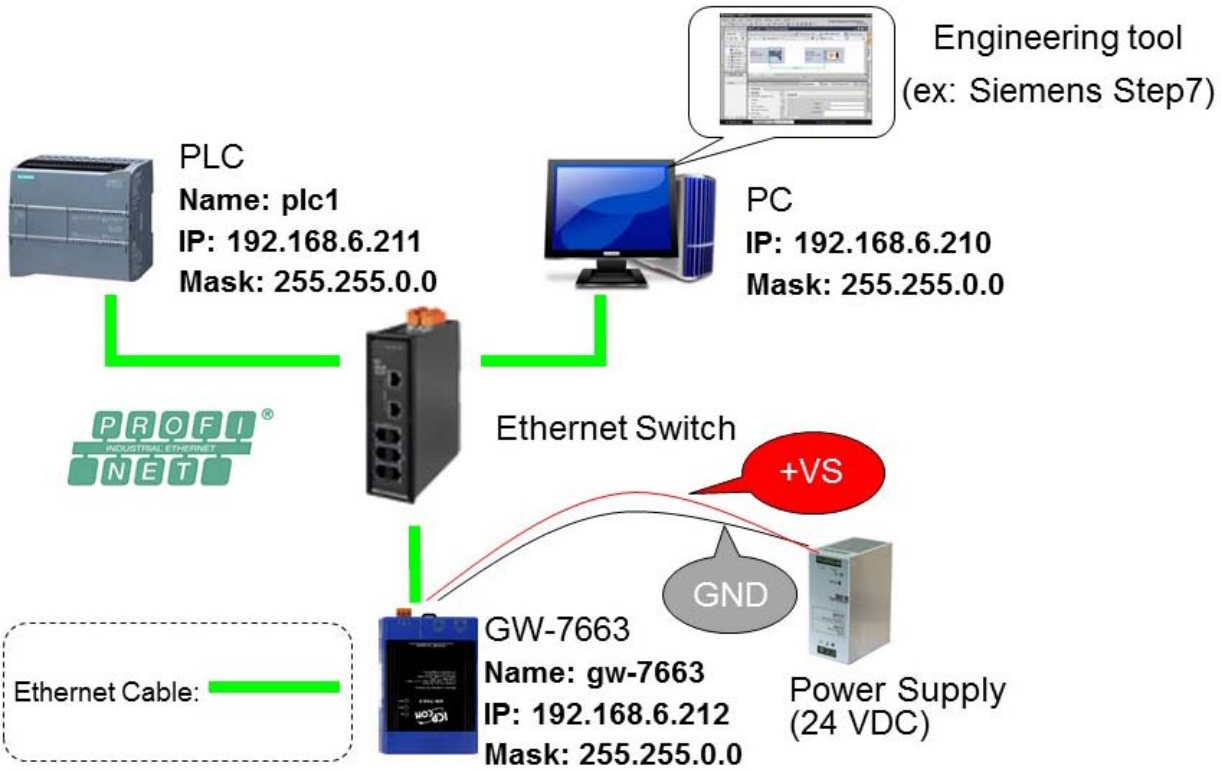
http://www.icpdas.com/products/Industrial/profibus/profinet_intro.htm

Let's Start

In the following examples the S7-1200 PLC from Siemens is used. The configuration and communication is done by the program ''Step 7 V11 (TIA PORTAL)'' provided by Siemens. We will establish a PROFINET IO network.

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1 Connecting to Network, PC, PLC and Power



2 Network Configuration

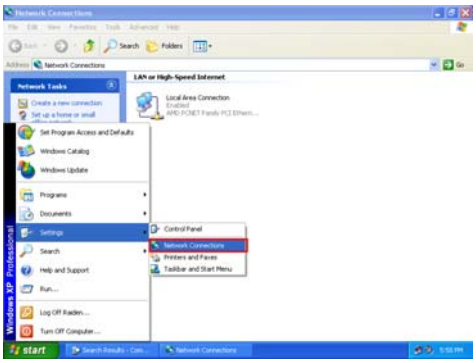
In this example, please follow the below configuration to configure the network.

PC=>	PLC=>	GW-7663=>
IP: 192.168.6.210	Device name: plc1	Device name: gw-7663
Mask: 255.255.0.0	IP: 192.168.6.211	IP: 192.168.6.212
	Mask: 255.255.0.0	Mask: 255.255.0.0

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Step 1: Set PC's IP & Mask (IP=192.168.6.210, Mask=255.255.0.0)

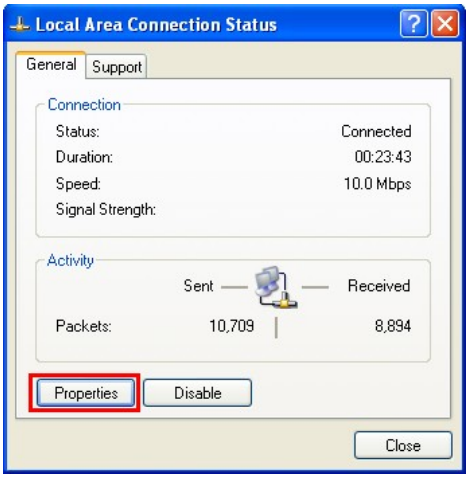
1. Click "start->Settings->Network Connections"



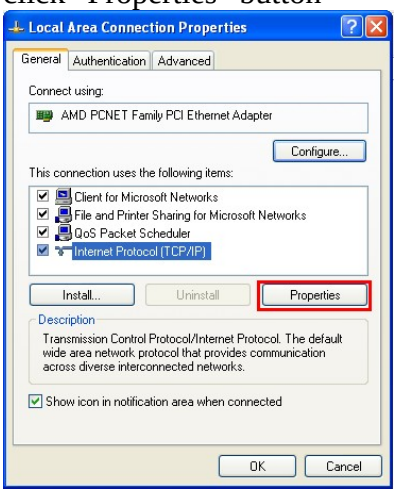
2. Double click "Local Area Connection" icon



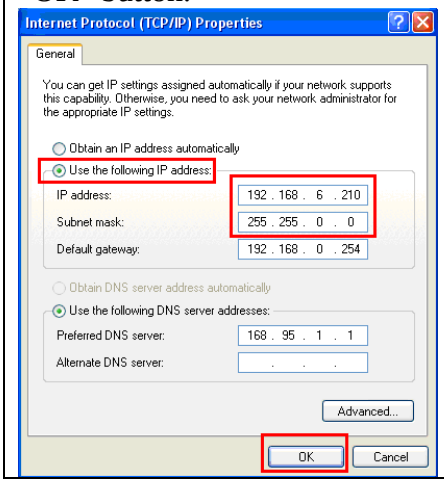
3. Click "Properties" button



4. Select "Internet Protocol(TCP/IP)" and click "Properties" button



5. Set "Internet Protocol Properties" and then click "OK" button.



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3 GSD Import

In this example, please follow the step to import GSD file.

Step 1: Get GSD file

The GSD file can be obtained from companion CD or our FTP site:

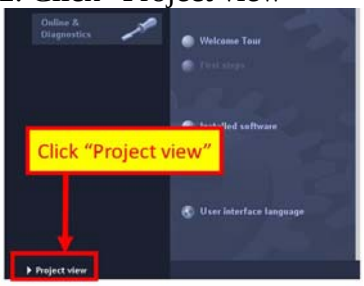
CD: \fieldbus_cd\profinet\gateway\gw-7663\gsd\
ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profinet/gateway/gw-7663/gsd/

Step 2: Import GSD file

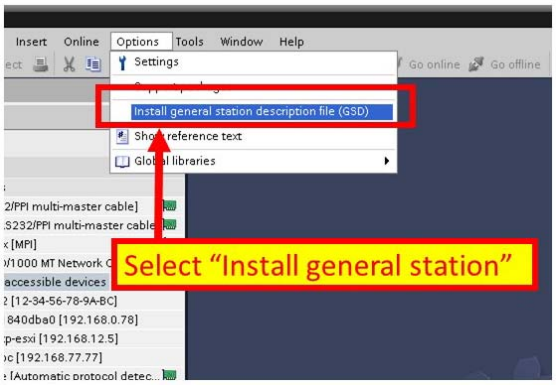
1. Double Click TIA icon to start Step 7 V11



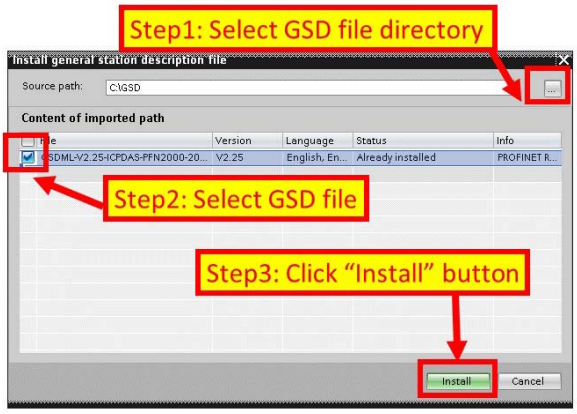
2. Click “Project view”



3. Select “Menu->Options->Install general station description file (GSD)”



4. Select and install GSD file



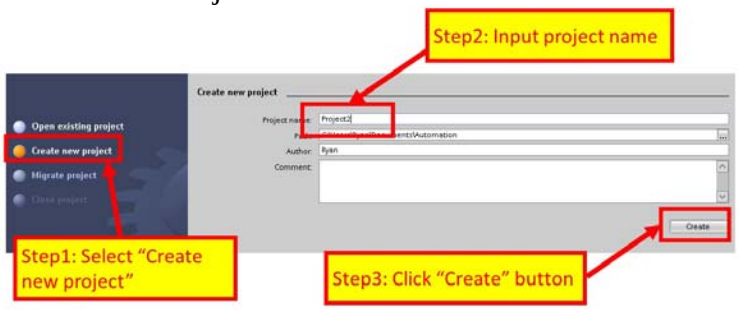
Note: Select the GSD file directory=>Select GSD file of GW-7663=>Click “Install” button

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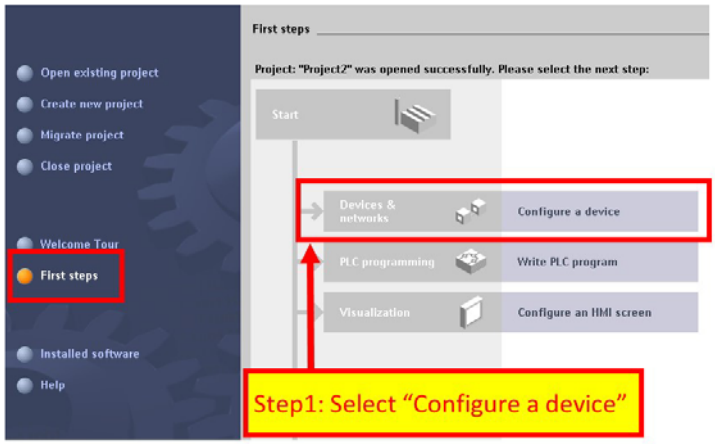
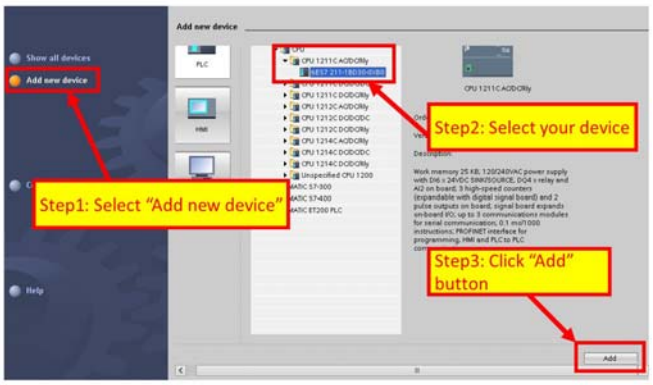
4 Project Setup

In this example, please follow the step to setup project.

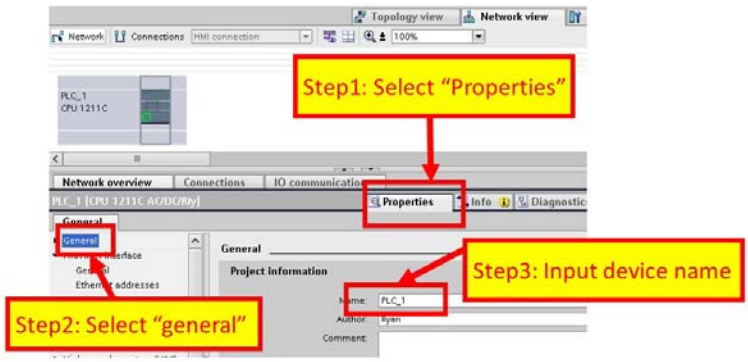
Step 1: Create the project

1. Double Click TIA icon to start Step 7 V11	2. Create the Project
	 Note: Select "Create new project" => Click "Create" button

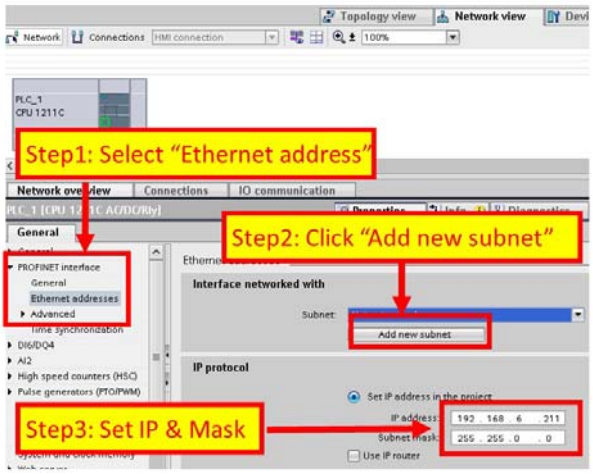
Step 2: Project configuration

1. Select "Configure a device"	2. Select "Add new device"
	 Note: Select "Add new device" => Select your PLC module => Click "Add" button
3. Set the device name of PLC to "plc1"	4. Set the IP and mask of PLC and add a new subnet

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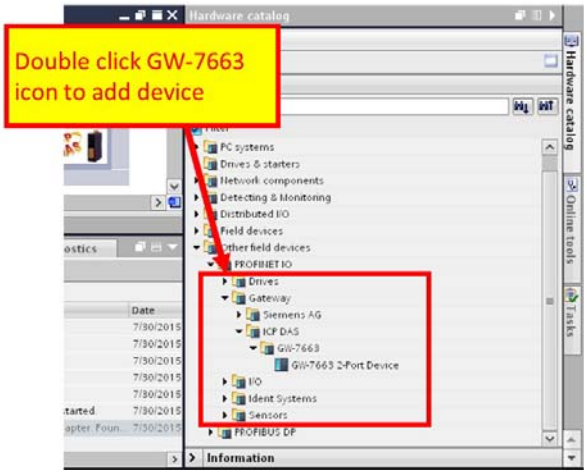


Note: Select ”Properties” windows => Select ”General” => Input device name = plc1 at “Project Information”



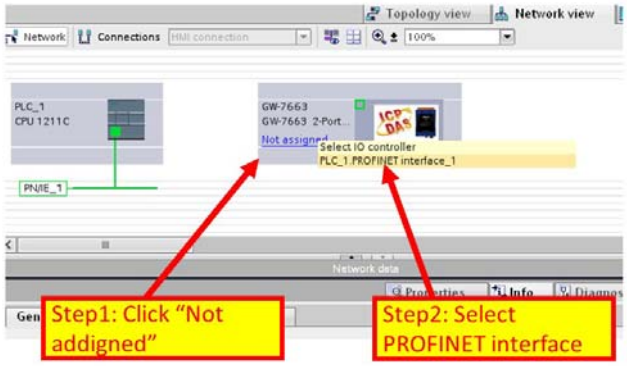
Note: Select ”PROFINET Interface” => Click ”Add new subnet” button at ”Ethernet addresses” => Input IP=192.168.6.211, mask=255.255.0.0

5. Add GW-7663 module



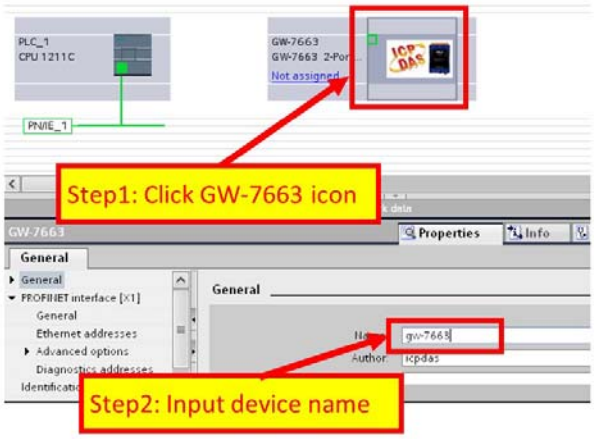
Note: Add GW-7663 device by Hardware catalog (Other field devices->PROFINET IO->Gateway->ICP DAS->GW-7663)

6. Select PROFINET interface



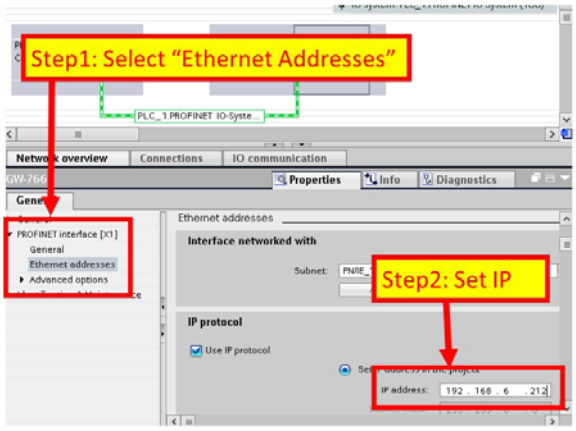
Note: Click ”Not assigned” text => Select plc1.PROFINET Interface_1

7. Set device name to “GW-7663”



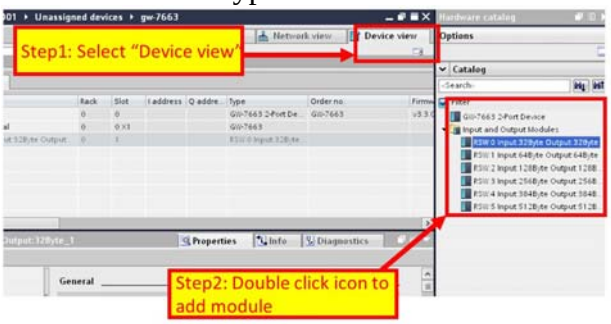
Note: Select GW-7663 icon => Select ”Properties” => Select ”General” => Input name = GW-7663 at ”Project

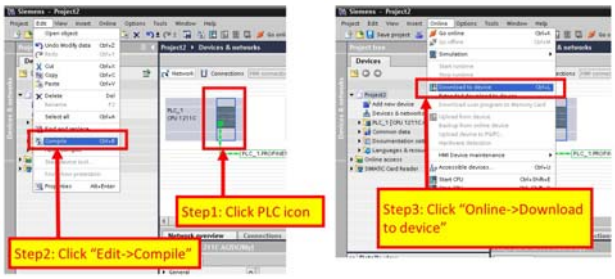
8. Set the IP of GW-7663 module

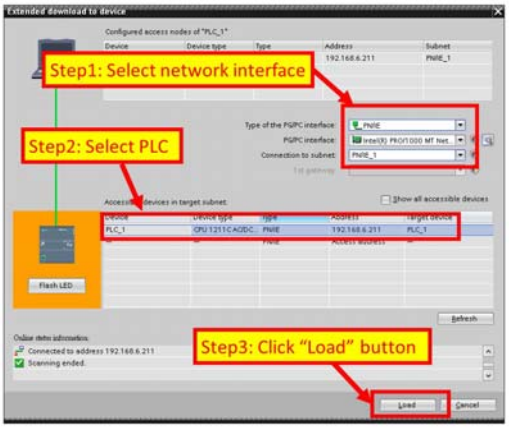


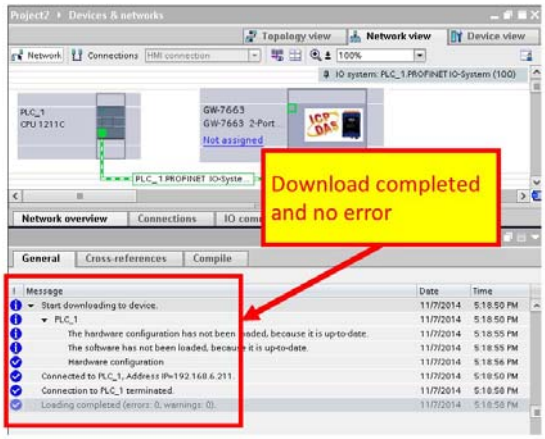
Note: Select ”PROFINET Interface [X1]” => Input IP=192.168.6.212 at ”IP addresses”

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<table>
<tr><td>Information”</td><td></td></tr>
<tr><td>9. Select module type of GW-7663 module


Note: Select ”Device view” windows => Select “RSW:0 Input:32Byte Output:32Byte” module at “Hardware catalog” and double click the icon to add this module</td><td>10. Compile and download to device


Note: Select ”Network view” windows => Select PLC icon => Click compile icon => Click download icon</td></tr>
<tr><td>11. Select network interface and PLC


Note: Select network interface => Select PLC => Click “Load” button</td><td>12. Load completed


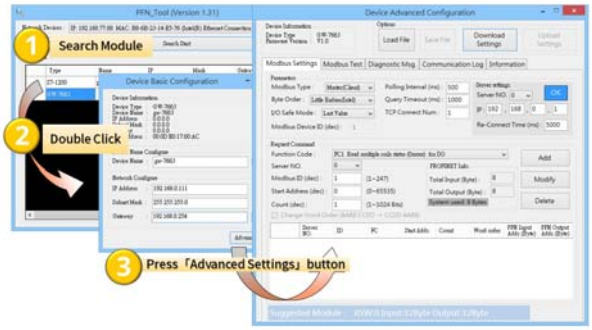
Note: Select “Info” windows, it will show “Load completed (errors: 0, warnings: 0)” message, it means download completed and no error.</td></tr>
</table>

At this time, the AP LED should turn on, BOOT LED and ERR LED should turn off, it means the connection between PLC and GW-7663 module is established.

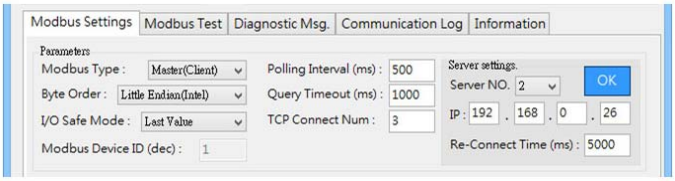
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5 Module Configuration

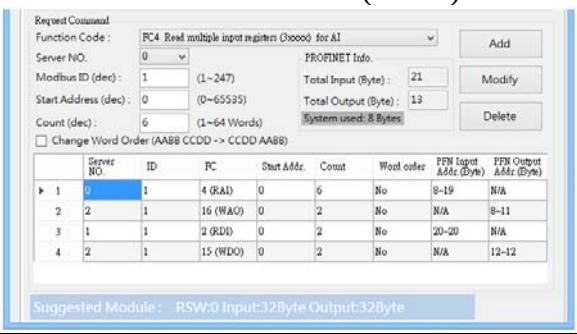
1. Open Device Advanced Configuration



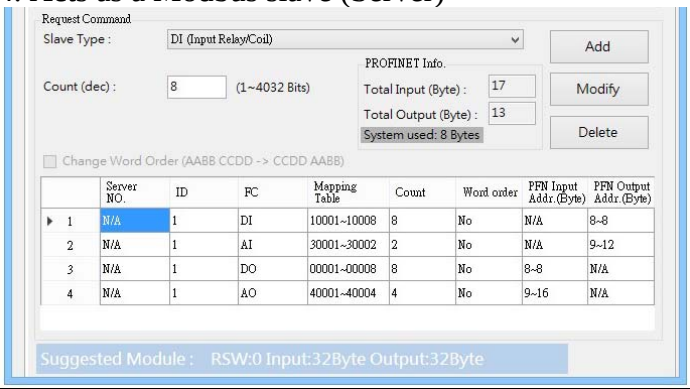
2. Configure Modbus communication parameters



3. Acts as a Modbus master (Client)



4. Acts as a Modbus slave (Server)



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