

ZB-2570/2571/2570P/2571P User Manual

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, or for any infringements of patents or other rights of third parties resulting from its use.

Copyright

Copyright 2009 by ICP DAS. All rights are reserved.

Trademark

The names used for identification only may be registered trademarks of their respective companies.

Table of Contents

| | | |
|-----|---|----|
| 1. | <i>Introduction</i> | 3 |
| 2. | <i>Specifications</i> | 4 |
| 3. | <i>Product Description</i> | 5 |
| 3.1 | Internal I/O Structure | 5 |
| 3.2 | Appearance | 7 |
| 3.3 | Dimensions (Units: mm) | 8 |
| 4. | <i>Applications</i> | 9 |
| 4.1 | Operating Modes | 9 |
| 4.2 | Application Example | 10 |
| 5. | <i>Quick Start for the ZB-2570/2571/2570P/2571P</i> | 16 |
| 5.1 | Installing the Configuration Tool | 16 |
| 5.2 | ZB-2570/2571/2570P/2571P Configuration Hardware | 18 |
| 5.3 | Quick Start for the ZigBee Converter | 20 |
| 5.4 | Configure the Operating Mode | 24 |
| 5.5 | Installing the Hardware | 30 |
| 6. | <i>Appendix</i> | 33 |
| 7. | <i>Ordering Information</i> | 35 |
| 8. | <i>Accessories</i> | 36 |

1. Introduction

ZigBee Network

The ZB-2570/2570P is a host ZigBee converter, and the ZB-2571/2571P is a slave ZigBee converter. Each feature an Ethernet/RS-485/RS-232 interface. Devices that have an Ethernet/RS-485/RS-232 interface are also able to be connected using the ZB-2570/2570P/2571/2571P. By distributing host and slave ZigBee converters in the field, users can easily build a wireless network that can be used for both monitoring and control.

User-friendly interface

A Windows compatible GUI configuration utility is available. Only four steps are required to set the ZB-2570/2571/2570P/2571P and then it is ready for use. The utility allows users to set different operating modes based on the type of application, and several of the required ZigBee variables such as PAN ID, etc.

What are the benefits of using ZigBee?

ZigBee is a specification based on the IEEE 802.15.4 standard for wireless personal area networks (WPANs). It is targeted at applications that require secure networking as well as high flexibility for network expansion anytime new nodes are to be added. It is also widely used in the industrial control field, in hospitals, labs and in building automation. Three topologies are defined in the IEEE 802.15.4 standard: Star, Cluster Tree and Mesh. The typical transmission range for the 2570/2571 is 100 m, and the 2570P/2571P is 700 m.

At present, the ICP DAS ZigBee converter products, support RS-232, RS-485 and Ethernet interfaces. The main design goal is limited data communication using wireless transmission, so may provide a better solution for environments where wiring is difficult. The ZigBee converter module provides six operating modes. Refer to [Section 4.2](#) for details. The ZB-2570/2571/2570P/2571P includes a repeater module (ZB-2510/2510P) that can be used to increase communication range or prevent data loss if the connection is interrupted or becomes unstable.

2. Specifications

Features:

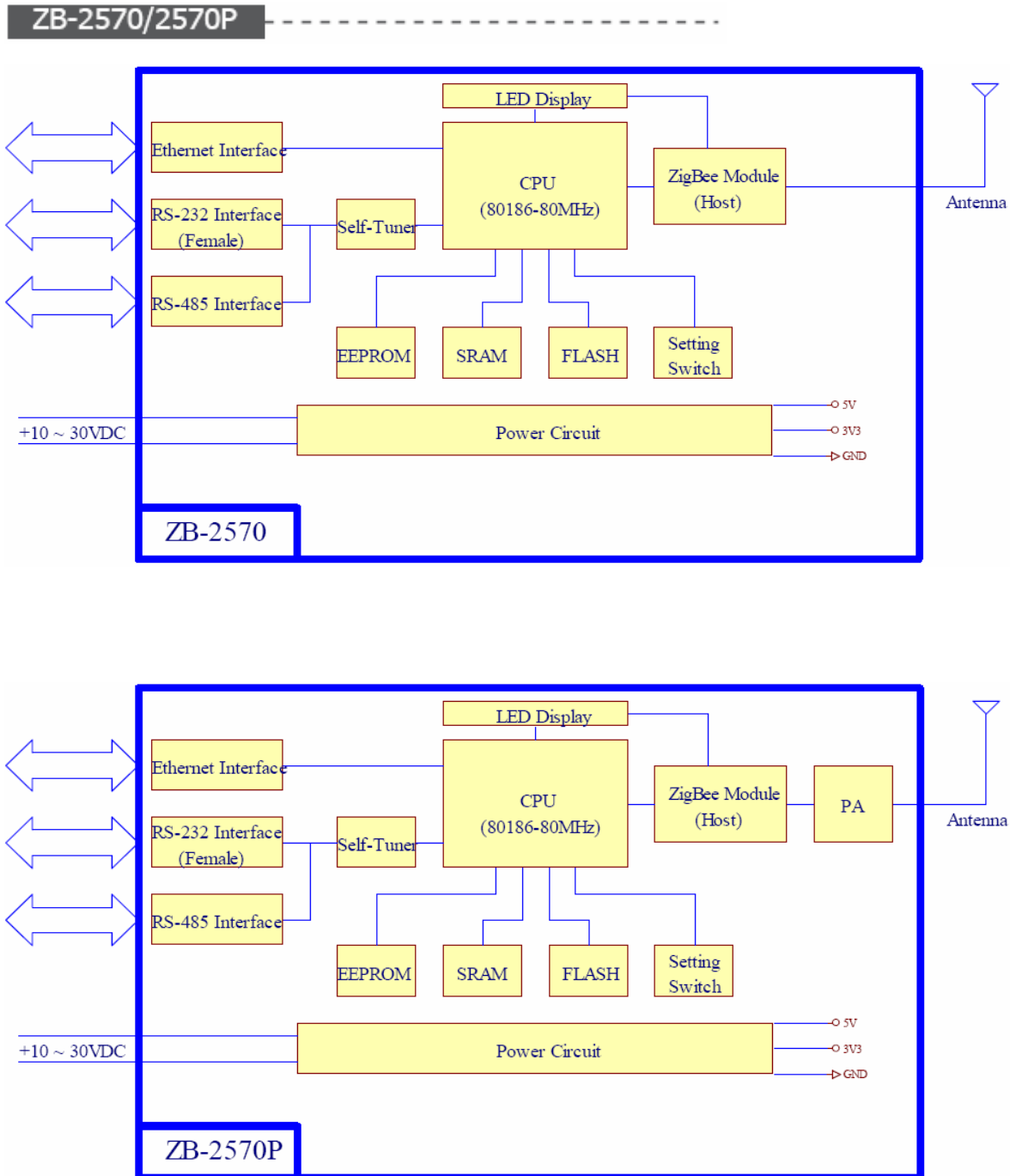
- ISM 2.4 GHz Operating Frequency.
- Full Compliance with 2.4 G IEEE802.15.4/ZigBee Specifications.
- Wireless transmission range up to 100 m (LOS) (ZB-2570/2571)
- Wireless transmission range typical for 700 meters, up to 1 km (LOS) (ZB-2570P/2571P)
- GUI Configuration Software (Windows Version)
- DIN-Rail Mountable.

Specifications:

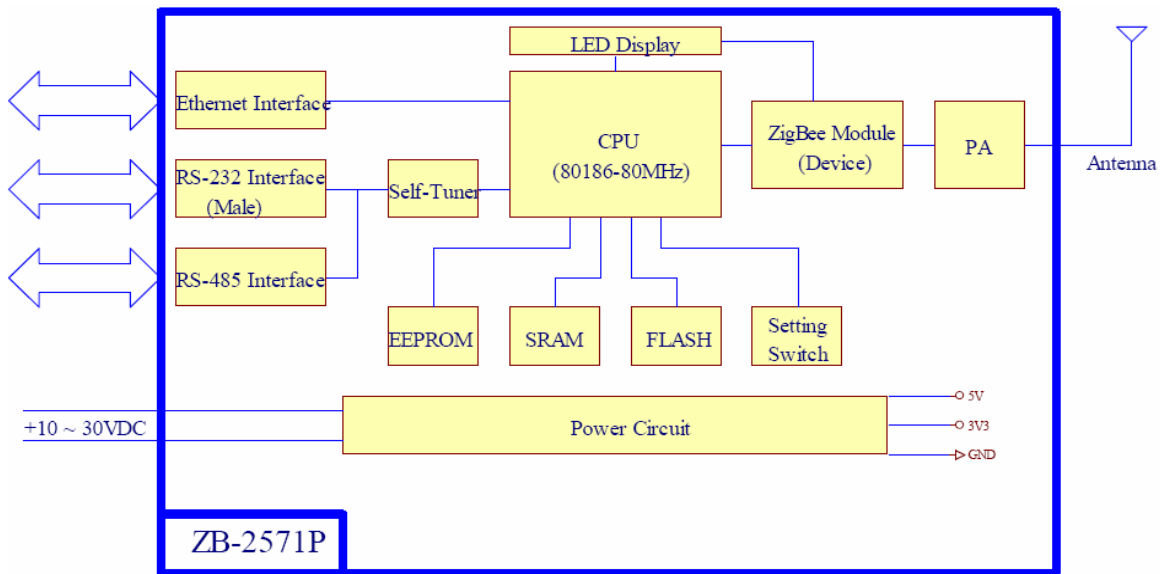
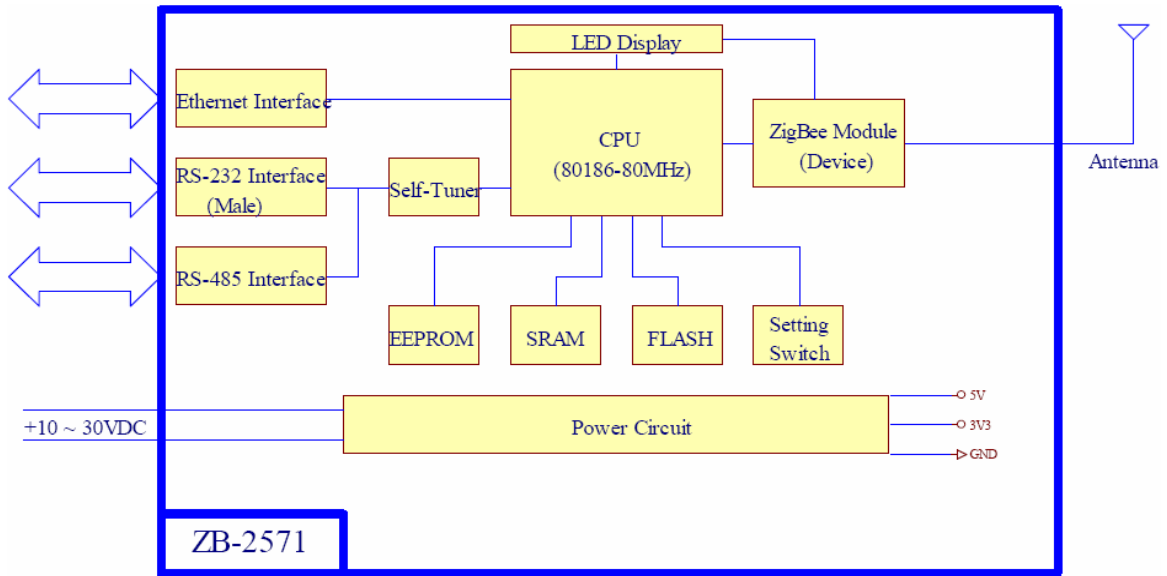
| Modules | ZB-2570 | ZB-2570P | ZB-2571 | ZB-2571P |
|--------------------------------|---|--|--|--|
| Wireless | | | | |
| RF Channels | 16 | | | |
| Receive Sensitivity | -102 dBm | | | |
| Transmit Power | 12 dBm | 18 ~24 dBm, adjustable | 12 dBm | 18 ~24 dBm, adjustable |
| Network Topology | Star, Mesh and Cluster tree | | | |
| Certification | TUV (ZCP) | | | |
| Antenna (2.4 GHz) | 3 dBi Omni-directional antenna | 5 dBi Omni-directional antenna | 3 dBi Omni-directional antenna | 5 dBi Omni-directional antenna |
| Transmission Range | 100 m (LOS) | Typical for 700 meters, up to 1 km (LOS) | 100 m (LOS) | Typical for 700 meters, up to 1 km (LOS) |
| General | | | | |
| CPU | 80186, 80 MHz or compatible | | | |
| Module Type | Host | | Slave | |
| Communication Interface | | | | |
| COM 0 | RS-232 (TxD, RxD, and GND); D-Sub 9 Female, Non-isolated. | | RS-232 (TxD, RxD, and GND); D-Sub 9 Male, Non-isolated. | |
| Ethernet | 10/100 Base-TX (Auto-negotiating, auto_MDI/MDI-X, LED indicators) | | | |
| COM 0 Settings | | | | |
| Baud Rate | 1200~115200 bps | | | |
| Data Bit | 7, 8 | | | |
| Parity Check | Even, Odd, None | | | |
| Stop Bit | 1 | | | |
| LED Indicators | | | | |
| ZigBee Net State | Green | | | |
| ZigBee RxD | Yellow | | | |
| Power | Red | | | |
| Power | | | | |
| Protection | Power reverse polarity protection. | | | |
| EMS Protection | ESD, Surge, EFT | | | |
| Required Supply Voltage | +10 V _{DC} ~ +30 V _{DC} | | | |
| Power Consumption | 2.5 W | 4 W (max.) | 2.5 W | 4 W (max.) |
| Connection | 5-pin 5.08 mm Removable Terminal Block. | | | |
| Mechanical | | | | |
| Casing | Plastic | | | |
| Flammability | UL 94V-0 materials | | | |
| Dimensions (W × L × H) | 33 mm × 78 mm × 107 mm | | | |
| Installation | DIN-Rail | | | |
| Environment | | | | |
| Operating Temperature | -25 °C ~ +75 °C | | | |
| Storage Temperature | -40 °C ~ +80 °C | | | |
| Relative Humidity | 5 ~ 95 % RH, non-condensing | | | |

3. Product Description

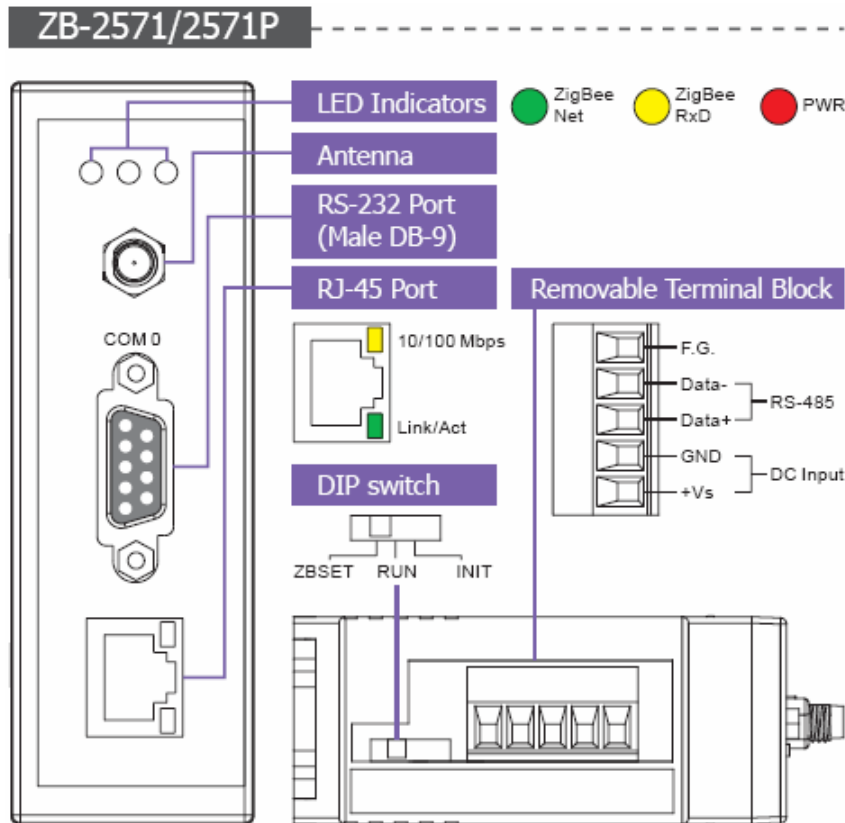
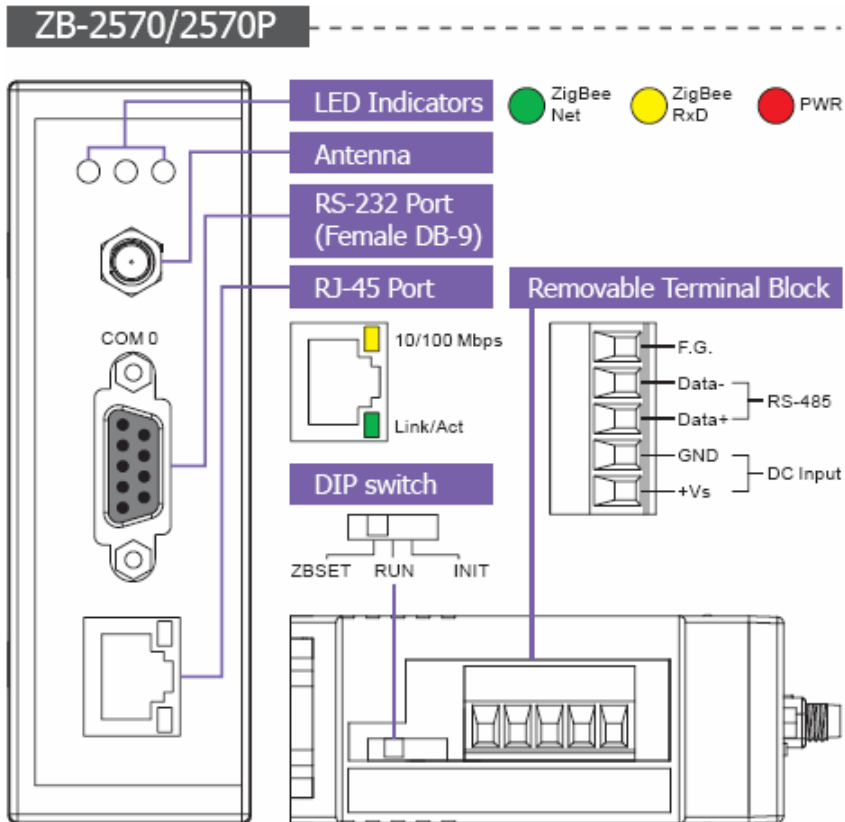
3.1 Internal I/O Structure



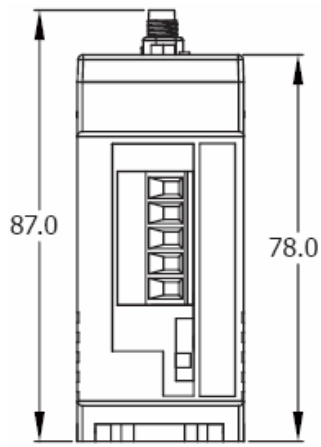
ZB-2571/2571P



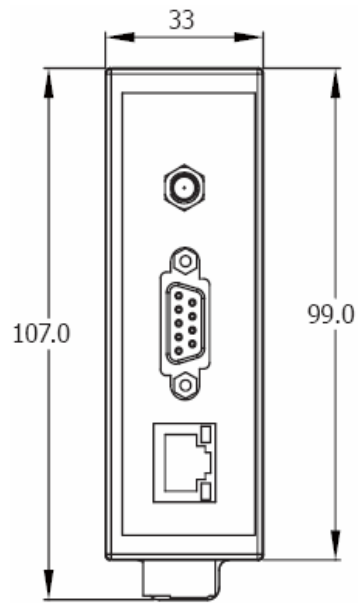
3.2 Appearance



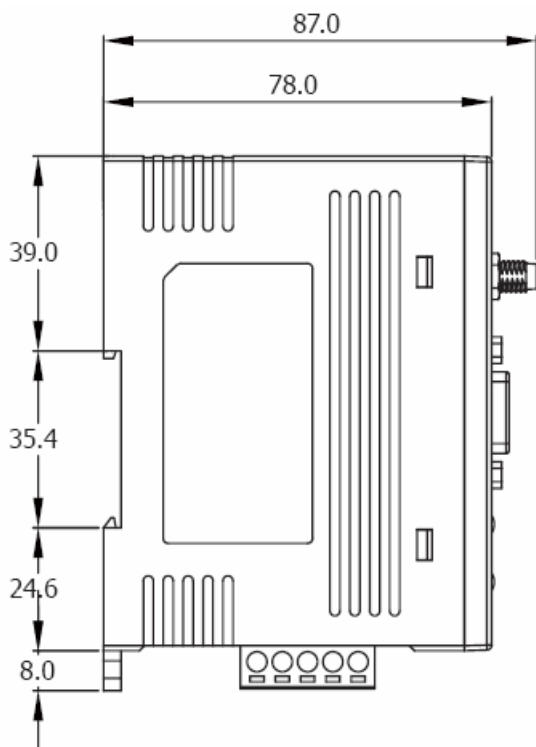
3.3 Dimensions (Units: mm)



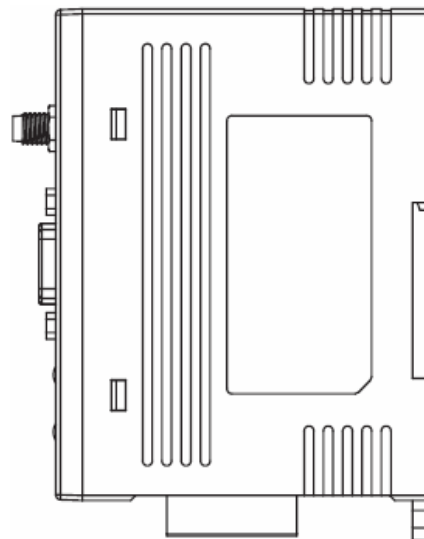
Bottom View



Front View



Left Side View



Right Side View

4. Applications

4.1 Operating Modes

| Interface | Operating Modes | |
|--------------------------------|------------------|--|
| Serial Port (RS-232/RS-485) | Operating Mode 1 | Transparent non-addressable Refer to Serial Port Mode 1 |
| | Operating Mode 2 | Modbus RTU/ASCII Refer to Serial Port Mode 2 |
| | Operating Mode 3 | Transparent addressable Refer to Serial Port Mode 3 |

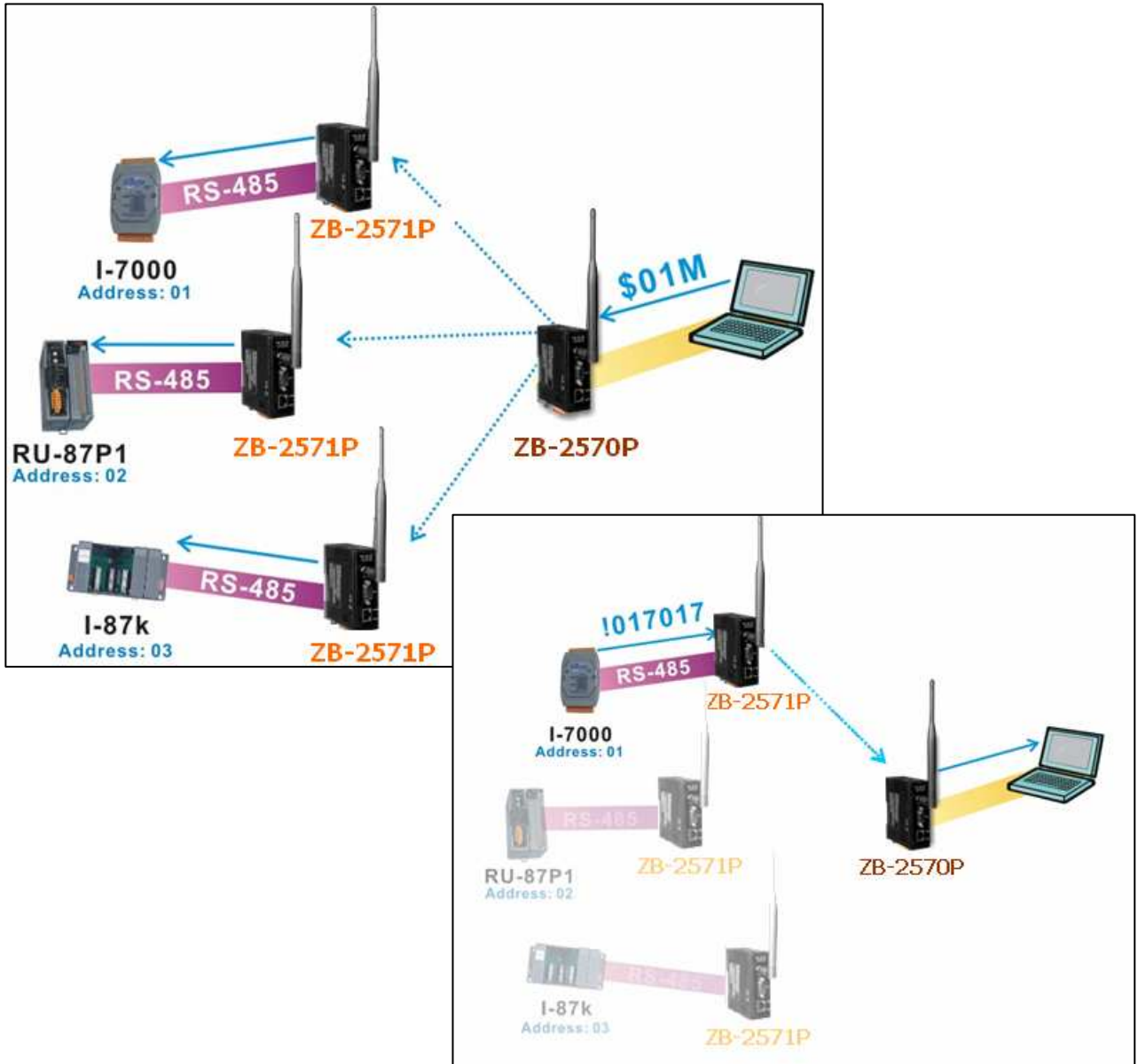
| Interface | Operating Modes | |
|---------------------|------------------|---|
| Ethernet (RJ-45) | Operating Mode 1 | Transparent non-addressable Refer to Ethernet Mode 1 |
| | Operating Mode 2 | Modbus TCP Refer to Ethernet Mode 2 |
| | Operating Mode 3 | Transparent addressable Refer to Ethernet Mode 3 |

◆ [Refer to Chapter 5 for further details regarding setting arguments.](#)

4.2 Application Example

1. Serial Port Operating Mode 1:

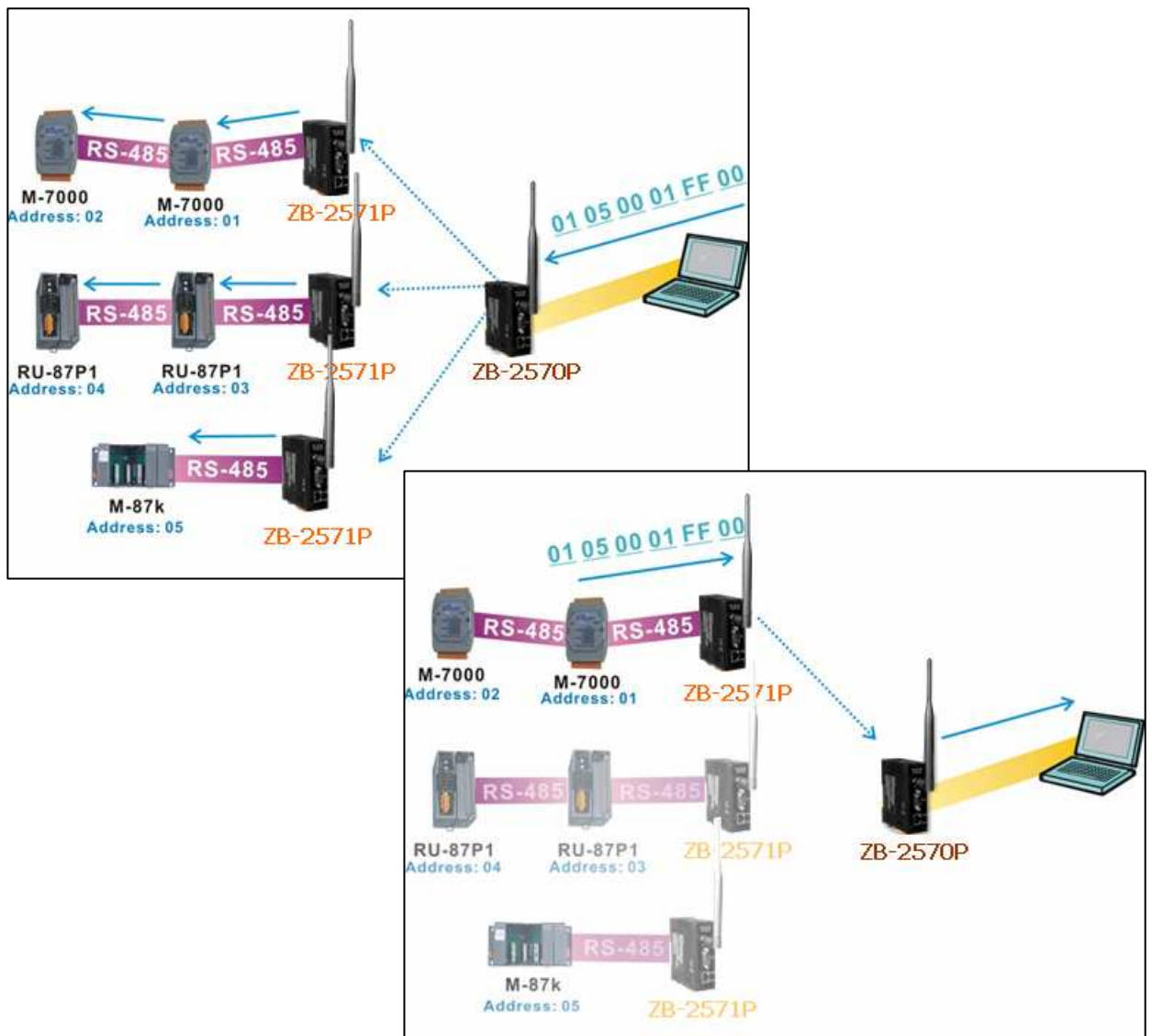
If you wish to convert the RS-232/RS-485 interface to ZigBee and the device is addressable, such as the ICP DAS I-7000/M-7000/I-87k remote I/O modules, you can use the ZB-2571/2571P (slave) to connect to these I/O modules and use the ZB-2570/2570P (host) to connect to your controller or PC.



In some applications where the host controller needs to broadcast data to all RS-232/RS-485 devices, and these devices receive data only (no response), you can also use this mode.

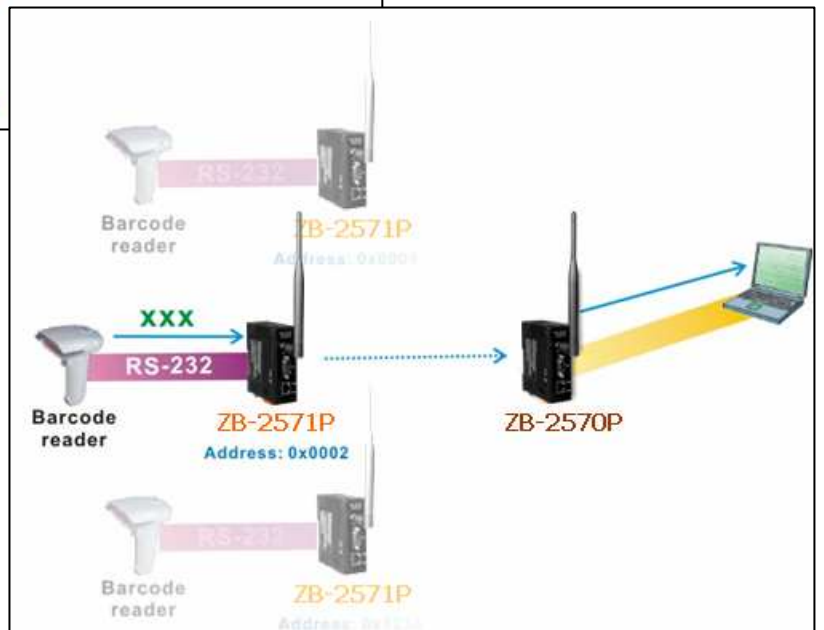
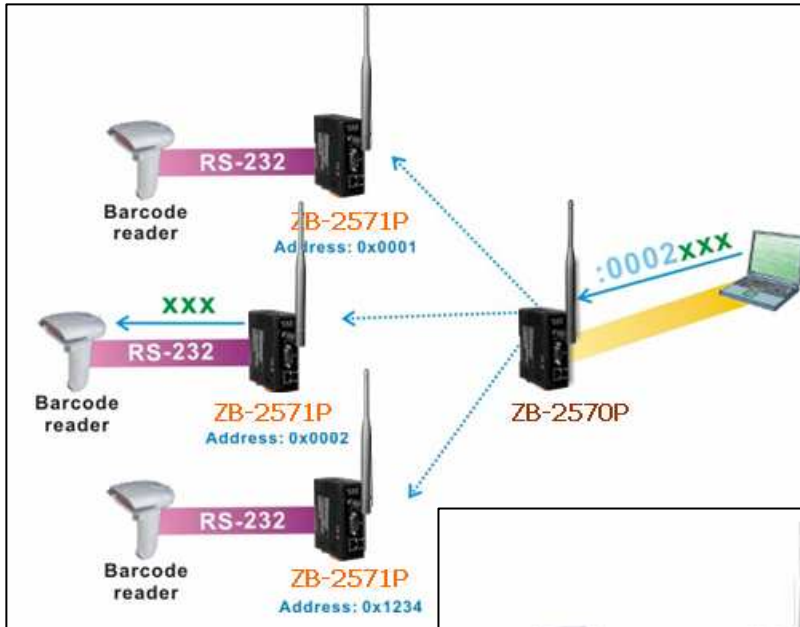
2. Serial Port Operating Mode 2:

This is a specific mode for Modbus RTU/ASCII devices.



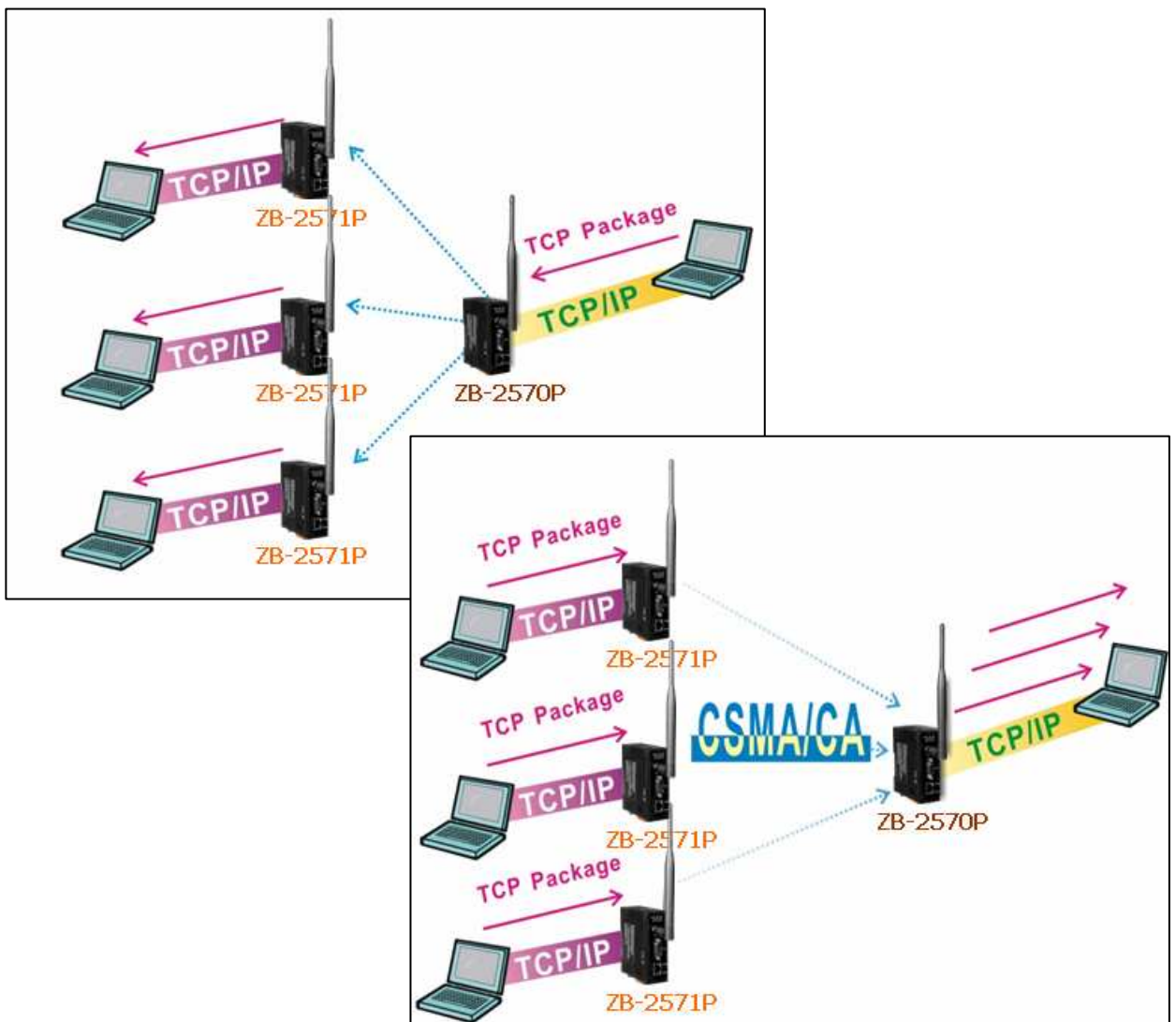
3. Serial Port Operating Mode 3:

If the RS-232/RS-485 interface modules aren't addressable, you can use mode 3 to set an address for the ZB-2571/2571P ranging from 1~0xFFFF (the ZB-2570/2570P is always set as 0). Add 5 ASCII characters to the header of the original request data from your controller, then the remote device with the correct address will respond to it. This mode is similar to that used in ICP DAS I-752N products.



4. Ethernet Operating Mode 1:

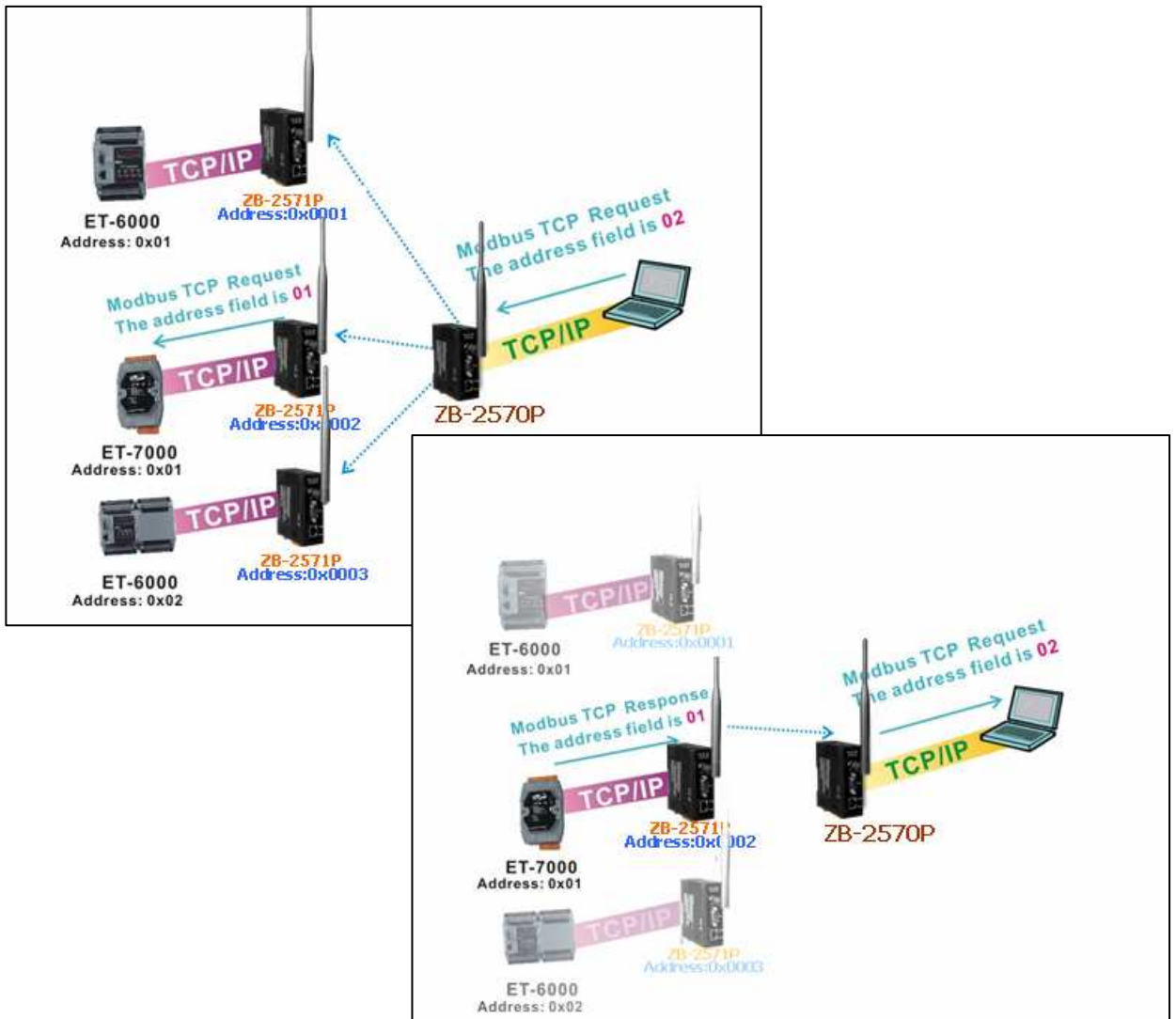
This mode is similar to serial port operating mode 1, but is used to connect to Ethernet devices. You should create a socket using the ZB-2570/2570P instead of a remote device on the controller side. The ZB-2571/2571P will create a socket connection to the rear device (you should set the connection IP and port number via our utility software before you use it.). When the controller sends a TCP package to the ZB-2570/2570P, the ZB-2570/2570P will broadcast it. When the ZB-2571/2571P receives the data from the ZB-2570/2570P, it will forward it to the rear device. If the device responds to the data, the ZB-2571/2571P will only send the TCP package to the ZB-2570/2570P. Your controller will then receive the data that is forwarded from the ZB-2570/2570P.



5. Ethernet Operating Mode 2:

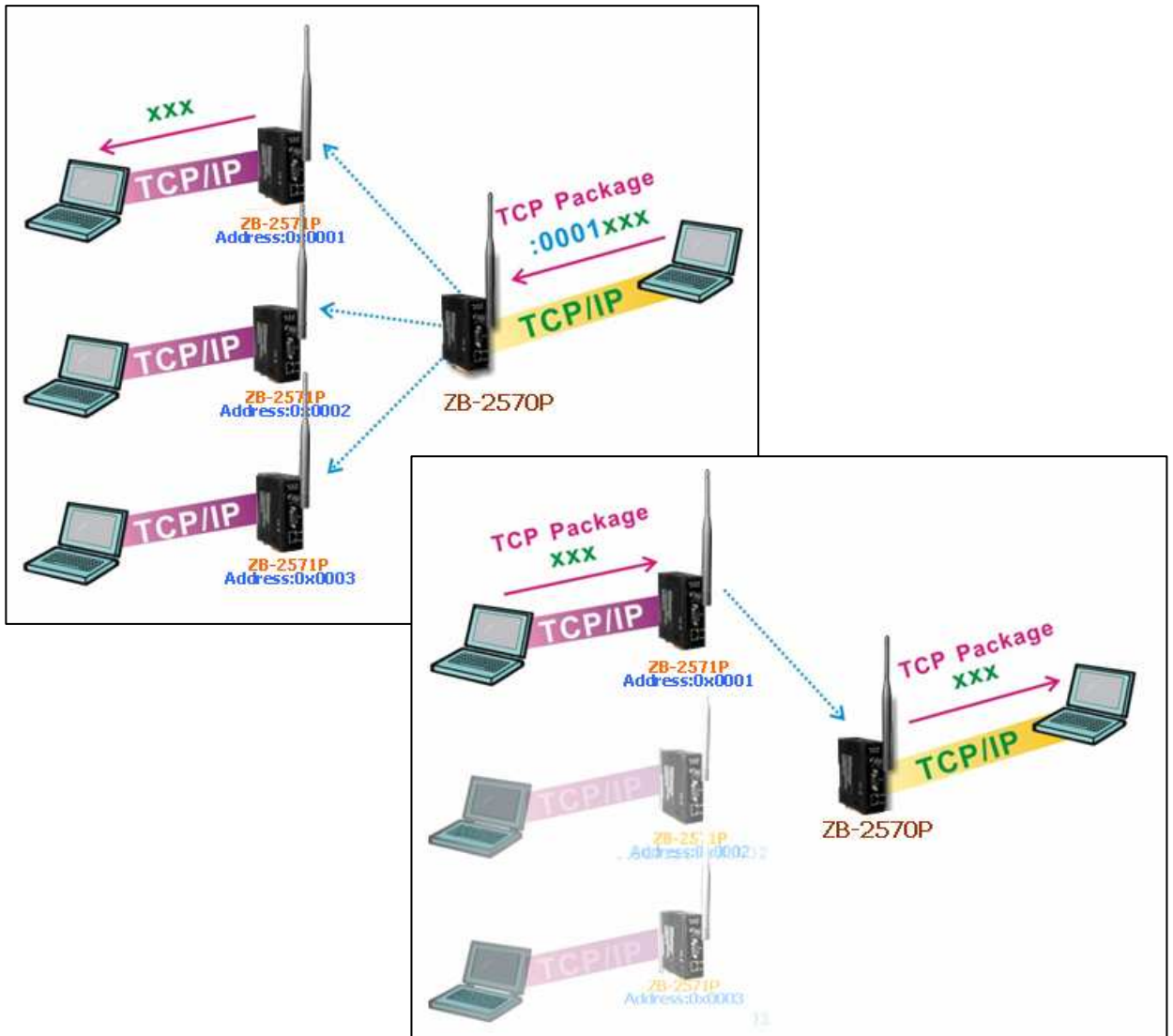
This is a specific mode for Modbus TCP devices. You should set a mapping address to the Modbus TCP device in the ZB-2571/2571P via our utility software, then Modbus TCP request commands can be sent from your SCADA software or your own software via the ZB-2570/2570P. The device with the correct address will then respond to the command.

For example, if the default address of your Modbus TCP device is 1 and you set the mapping address of the ZB-2571/2571P to address 2, you should send a Modbus TCP request command from your software with the address field set as 02.



6. Ethernet Operating Mode 3:

This mode is similar to serial port operating mode 3, but is used to connect to Ethernet devices.



5. Quick Start for the ZB-2570/2571/2570P/2571P

5.1 Installing the Configuration Tool

1. Download the file from:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zigbee_converter/zb_257x/utility/

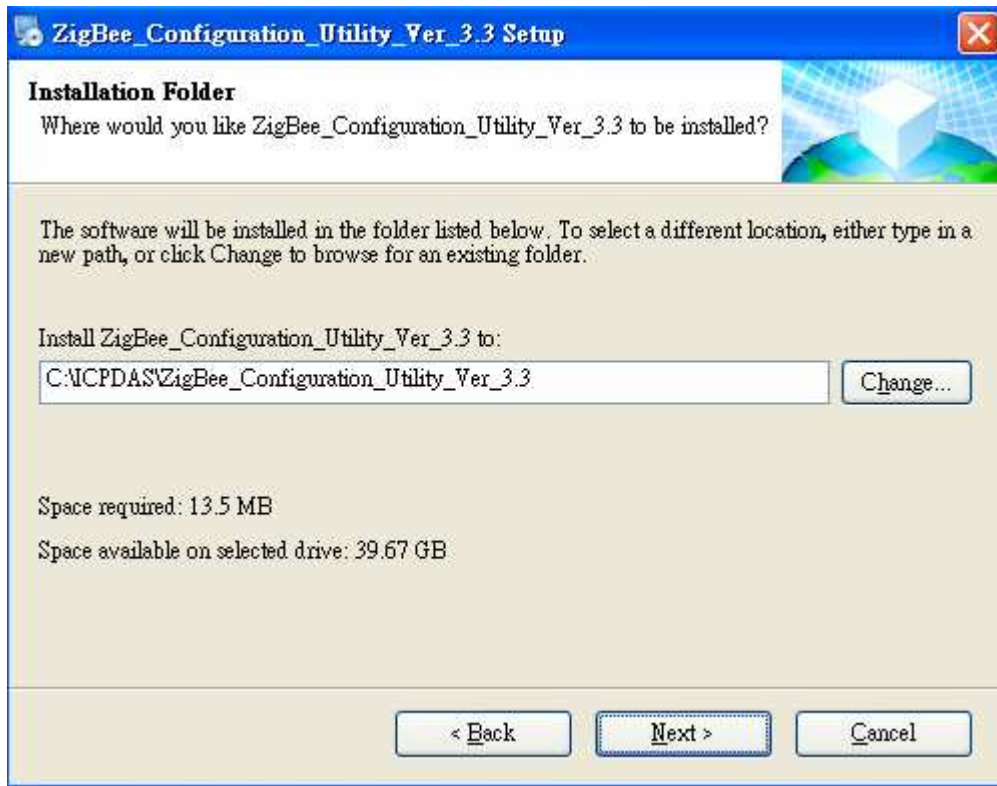
2. Uncompress the file and double click the **setup_ver_3.3.exe** file to install the configuration tool for the ZigBee converter.



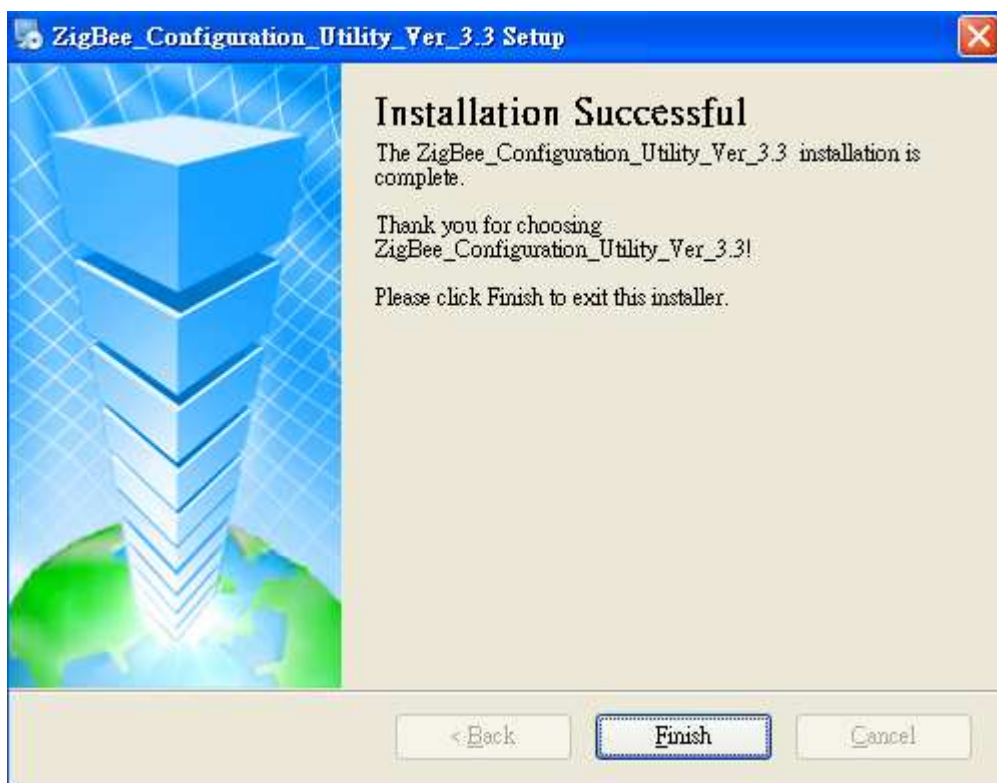
3. When the following screen is displayed, click the **Next>** button to continue the installation, or click **Cancel** exit the installation.



4. When the following screen is displayed, either click the **Next>** button to install the software into the default directory, or click the **Change...** button to install into an alternate location. Click the **Cancel** button to quit the installation.

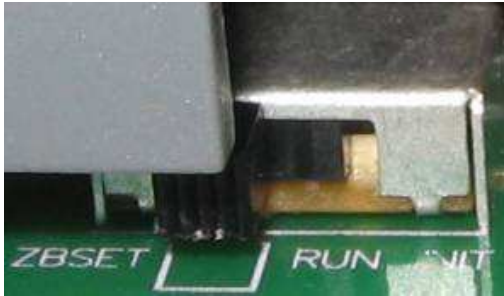


5. When the following screen is displayed, click the **Finish** button to finalize the software installation.

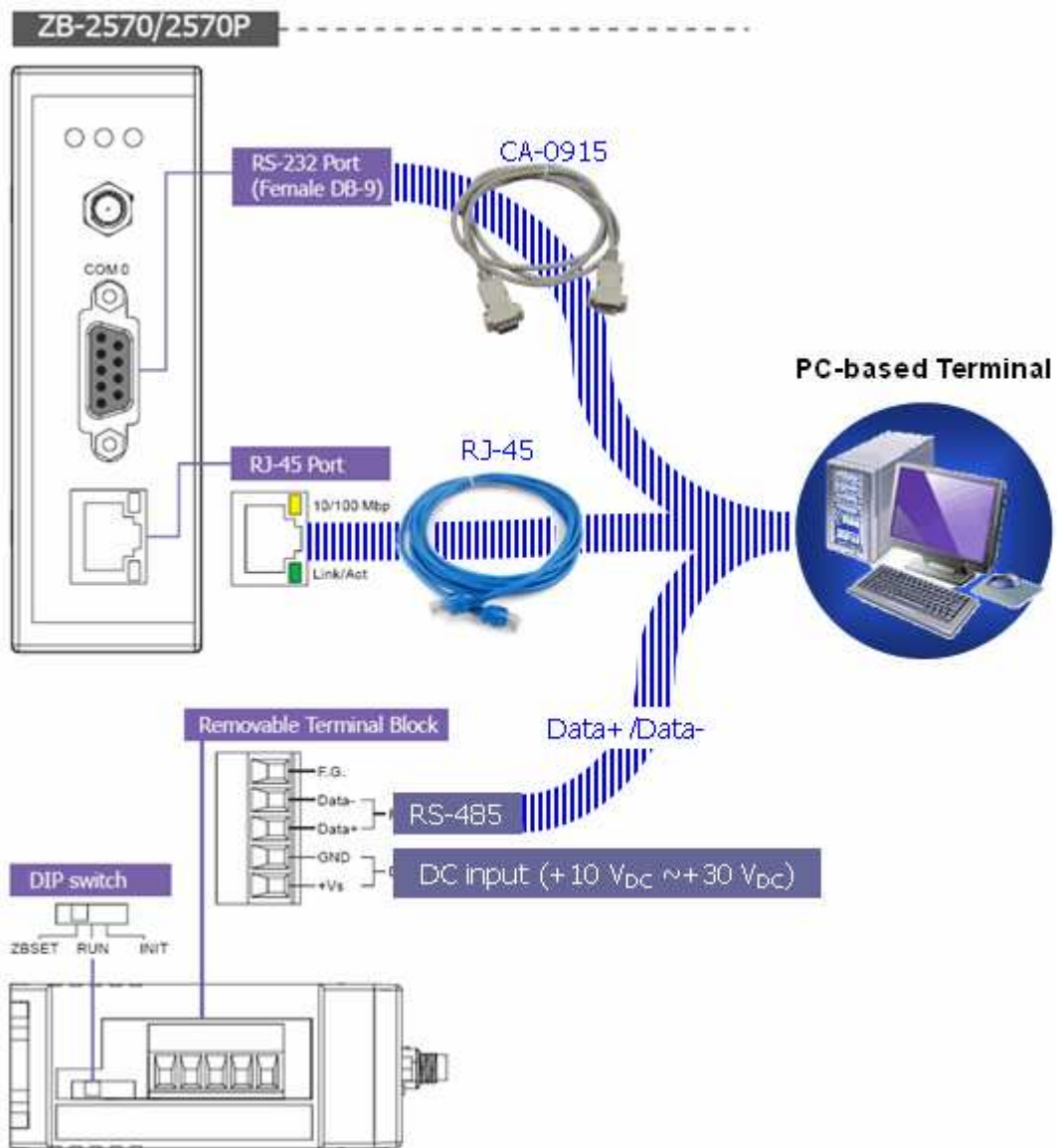


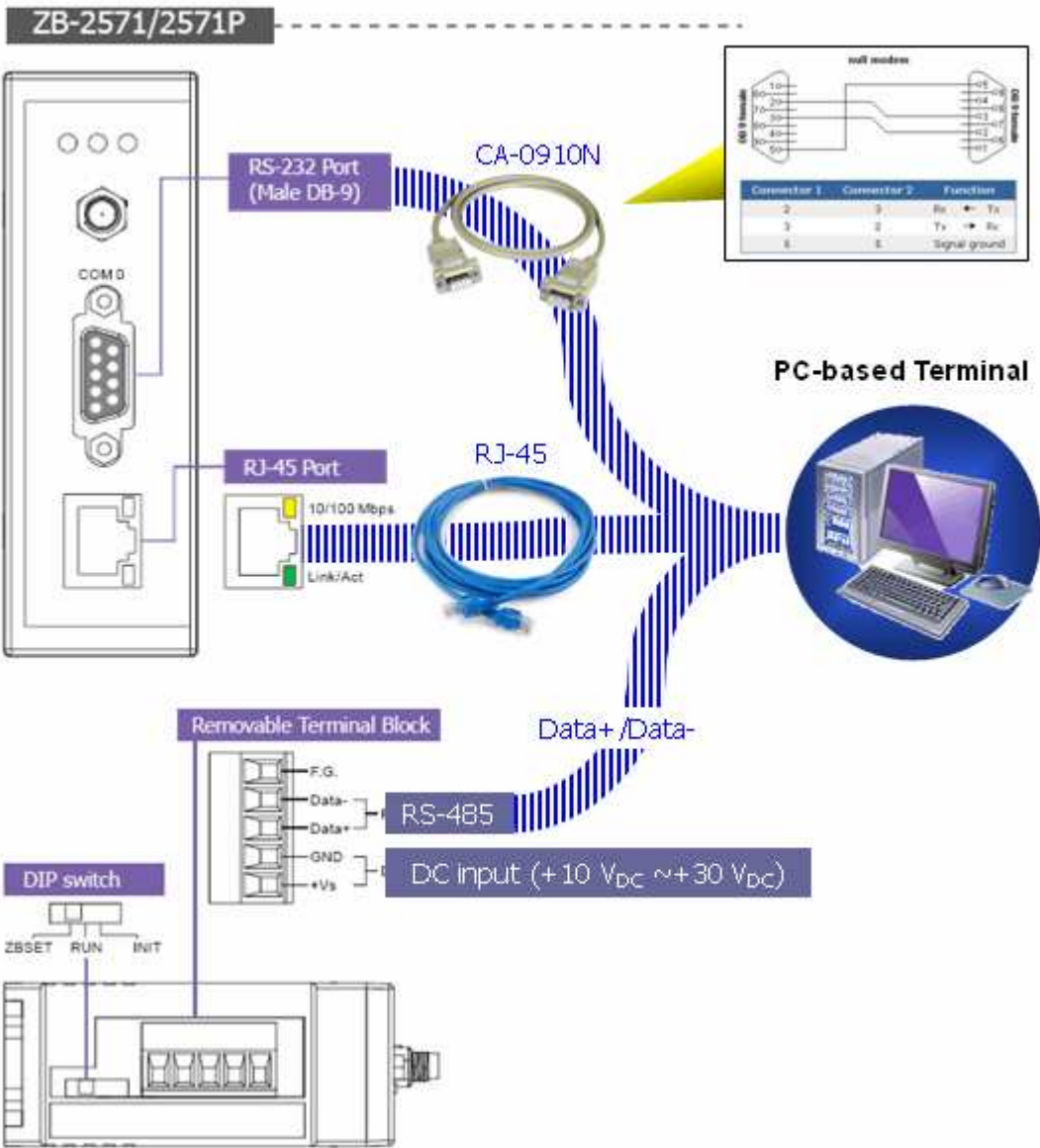
5.2 ZB-2570/2571/2570P/2571P Configuration Hardware

I. Adjust the switch to the **ZBSET** position then power on the module.



II. Configuring the serial port and ethernet hardware





5.3 Quick Start for the ZigBee Converter

1. Before configuring the ZigBee converter, adjust the switch to the **ZBSET** position then switch on the power (**Figure 1**). After configuration is complete, adjust the switch to the **RUN** position then switch on the power (**Figure 2**). Be sure to turn the power off before adjusting the switch.

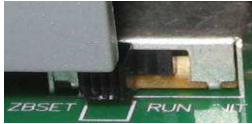
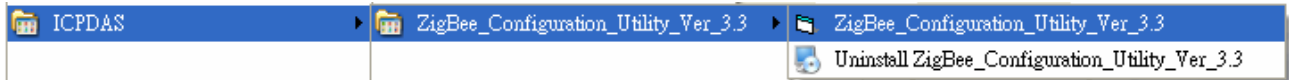


Figure 1



Figure 2

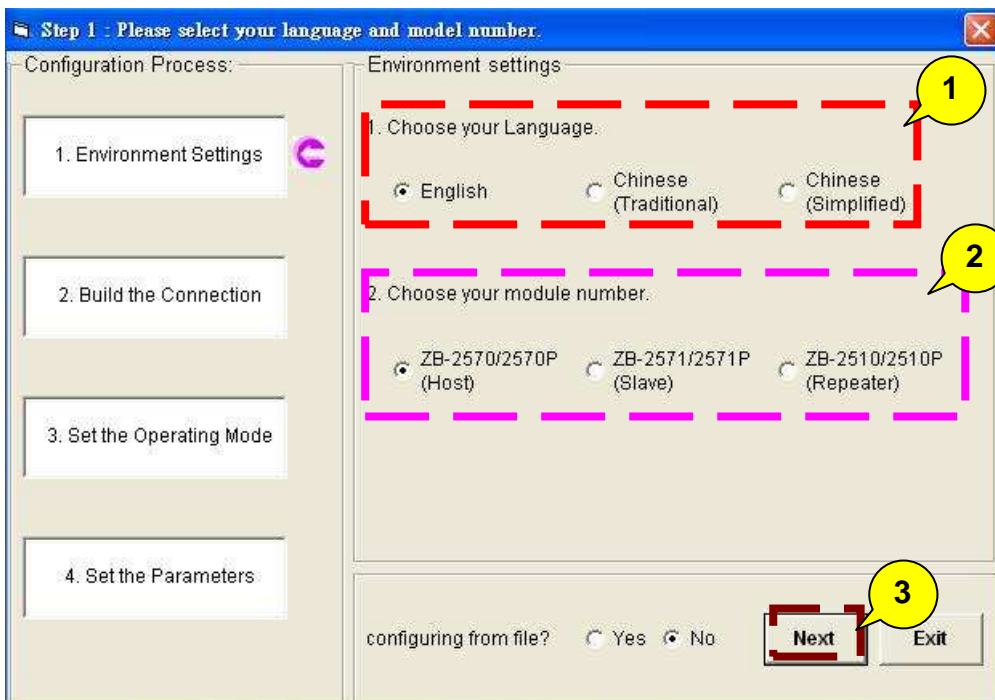
2. After installing the ZigBee_Configuration_Utility_Ver_3.3, the executable file can be found at:
Start\ProgramFiles\ICPDAS\ZigBee_Configuration_Utility_Ver_3.3\ZigBee_Configuration_Utility_Ver_3.3.exe



3. Connect the ZigBee converter using one of the hardware interfaces (RS-232, RS-485 or Ethernet; the default configuration interface is RS-232) and execute the utility.
4. When the following screen is displayed:

In the *Environment Settings* section:

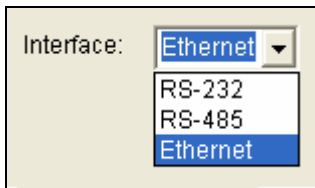
1. Choose the language.
2. Choose the module (ZB-2570/2571/2570P/2571P).
3. Click the **Next** button.



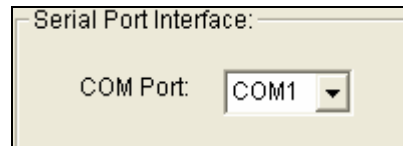
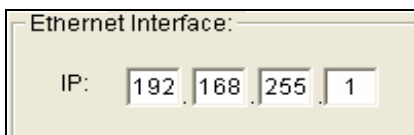
5. When the following screen is displayed:

In the *Build the Connection* section:

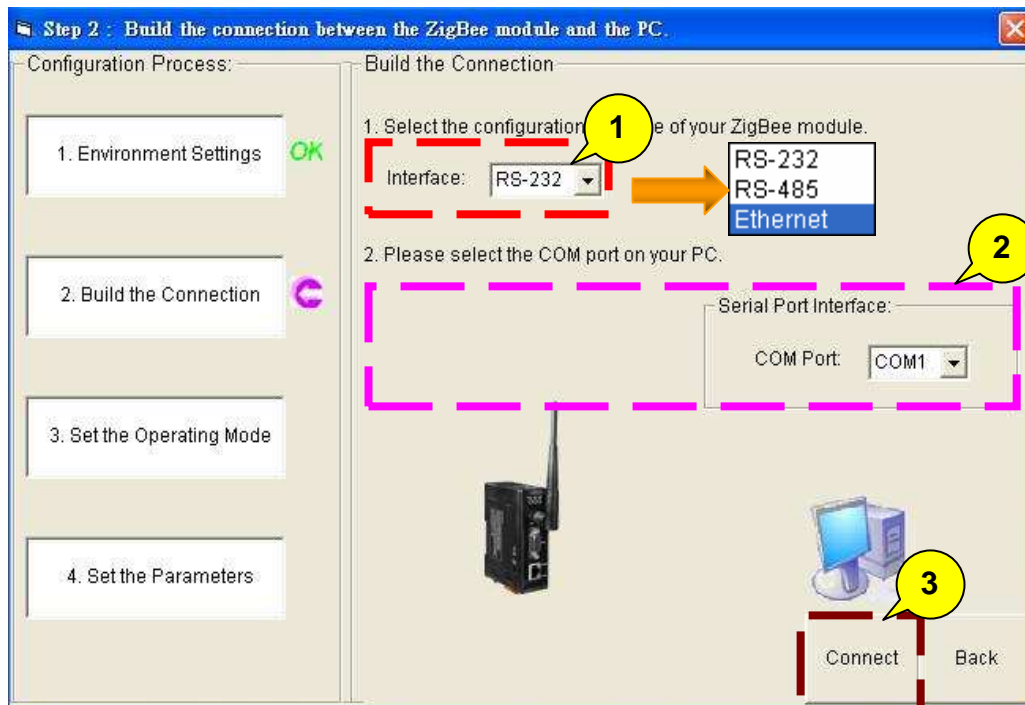
1. Select the configuration interface of your ZigBee converter module.



2. Enter the interface parameters (COM Port number or IP)



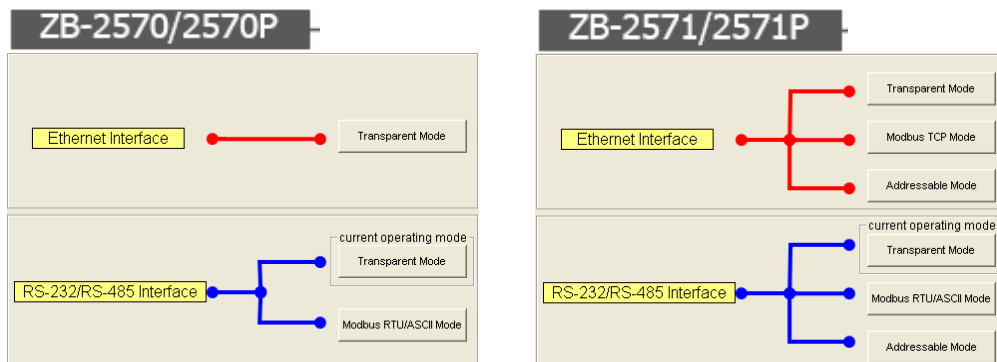
3. Click the **Connect** button.



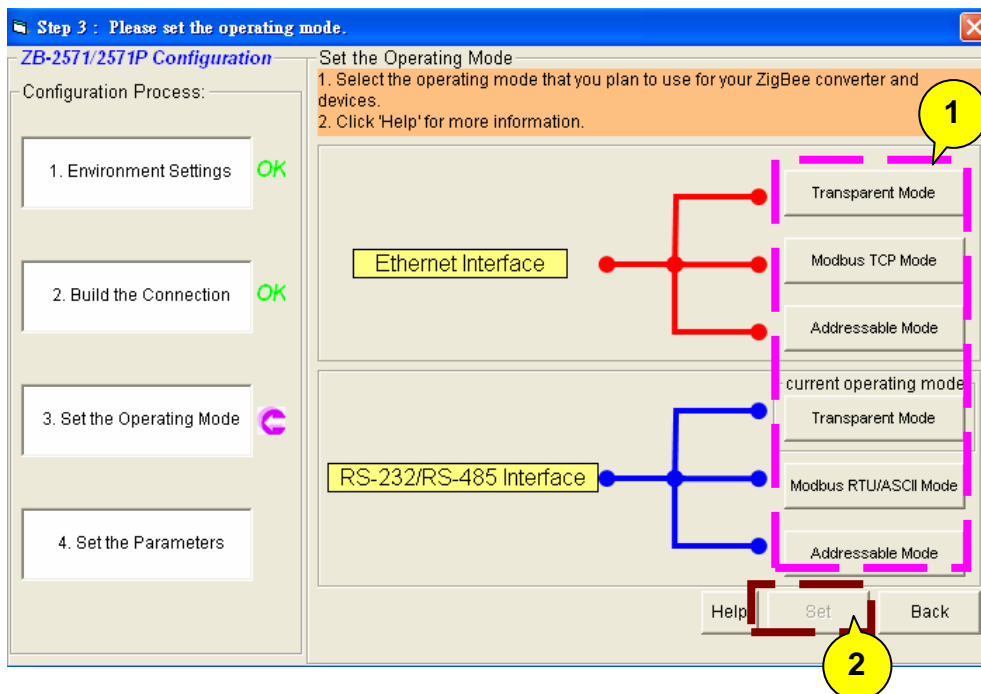
6. When the following screen is displayed:

In the *Set the Operating Mode* section:

1. Select the operating mode that you plan to use for your ZigBee converter and devices.



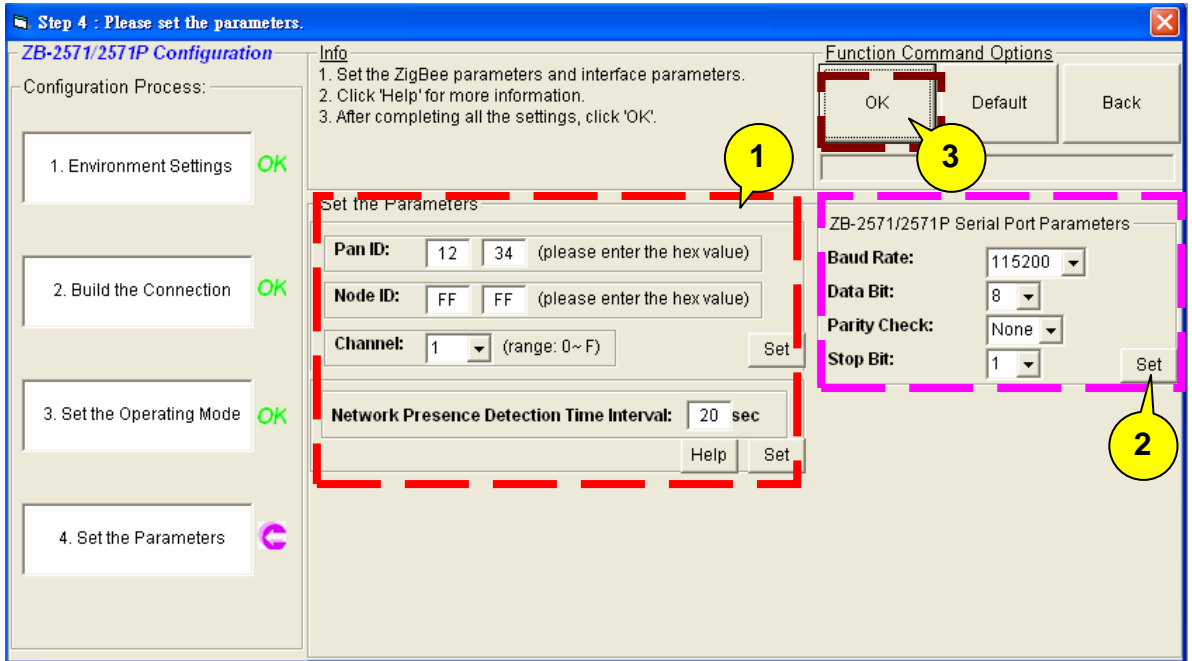
2. Click the **Set** button.



7. When the following screen is displayed:

In the *Set the Parameters* section:

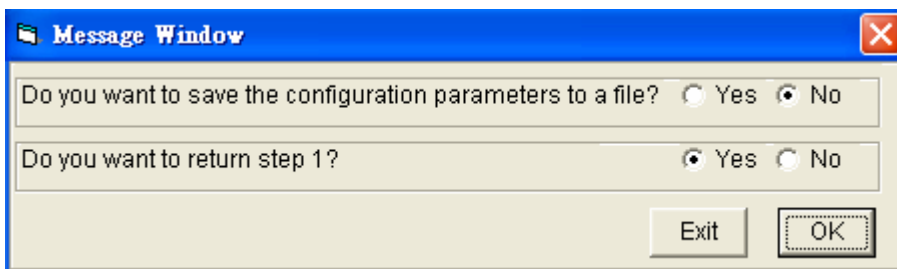
1. Set the ZigBee parameters. After entering the ZigBee parameter settings, click the **Set** button.
2. Set the interface parameters, after finishing the interface parameter settings, click the **Set** button.
3. Click the **OK** button.



When the following alert is displayed, it means that the configuration has been successful. Click the **OK** button to continue the configuration.



When the following alert is displayed, it means that configuration is finished. Click the **OK** button to exit the configuration.



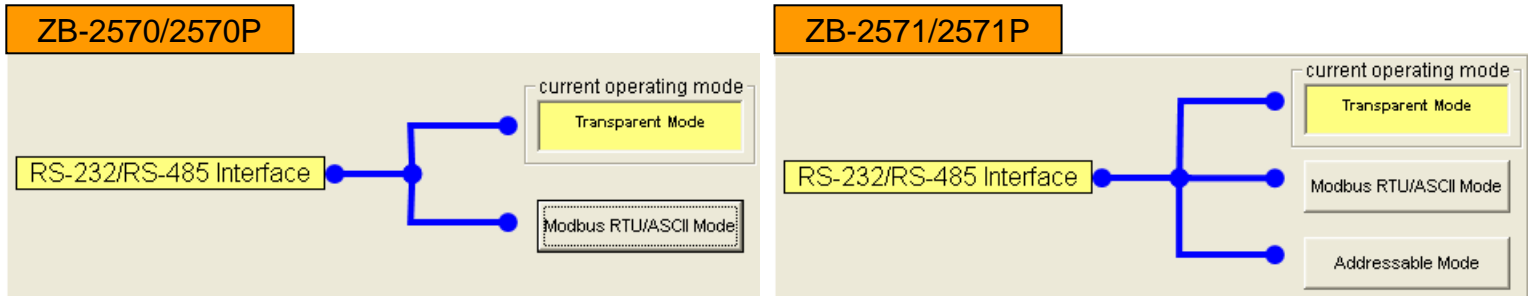
5.4 Configure the Operating Mode

1. Serial Port Operating Mode 1 – Transparent Mode:

1. Operating Mode:

ZB-2570/2570P: RS-232/RS-485 Interface – **Transparent Mode**

ZB-2571/2571P: RS-232/RS-485 Interface – **Transparent Mode**



2. ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.

3. Interface Parameters: serial port (RS-232 or RS-485) parameters.

ZB-2570/2570P

The screenshot shows the configuration interface for ZB-2570/2570P. The 'Set the Parameters' section includes fields for Pan ID (00 01), Node ID (00 00), Channel (1), and Encryption (NO). The 'ZB-2570/2570P Serial Port Parameters' section includes fields for Baud Rate (115200), Data Bit (8), Parity Check (None), and Stop Bit (1).

ZB-2571/2571P

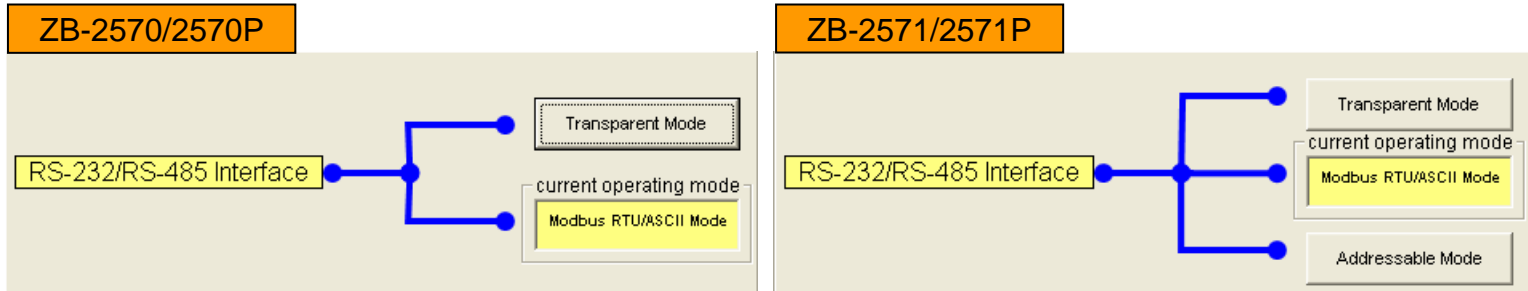
The screenshot shows the configuration interface for ZB-2571/2571P. The 'Set the Parameters' section includes fields for Pan ID (00 01), Node ID (00 01), Channel (1), and Network Presence Detection Time Interval (20 sec). The 'ZB-2571/2571P Serial Port Parameters' section includes fields for Baud Rate (115200), Data Bit (8), Parity Check (None), and Stop Bit (1).

2. Serial Port Operating Mode 2 – Modbus RTU/ASCII Mode:

1. Operating Mode:

ZB-2570/2570P: RS-232/RS-485 Interface – **Modbus RTU/ASCII Mode**

ZB-2571/2571P: RS-232/RS-485 Interface – **Modbus RTU/ASCII Mode**



2. ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.

3. Interface Parameters: serial port (RS-232 or RS-485) parameters.

4. Operating mode parameters: COM Port receive timeout value.

ZB-2570/2570P
Set the Parameters

Pan ID: 00 01 (please enter the hex value)
Node ID: 00 00 (please enter the hex value)
Channel: 1 (range: 0~F) [Set]
Encryption: NO [Set]

ZB-2570/2570P Serial Port Parameters
Baud Rate: 115200
Data Bit: 8
Parity Check: None
Stop Bit: 1 [Set]

Operating Mode Parameters
Silent interval for Modbus Protocol 4 (default = 3.5 char time). [Help] [Set]

ZB-2571/2571P
Set the Parameters

Pan ID: 00 01 (please enter the hex value)
Node ID: 00 01 (please enter the hex value)
Channel: 1 (range: 0~F) [Set]
Network Presence Detection Time Interval: 20 sec [Help] [Set]

ZB-2571/2571P Serial Port Parameters
Baud Rate: 115200
Data Bit: 8
Parity Check: None
Stop Bit: 1 [Set]

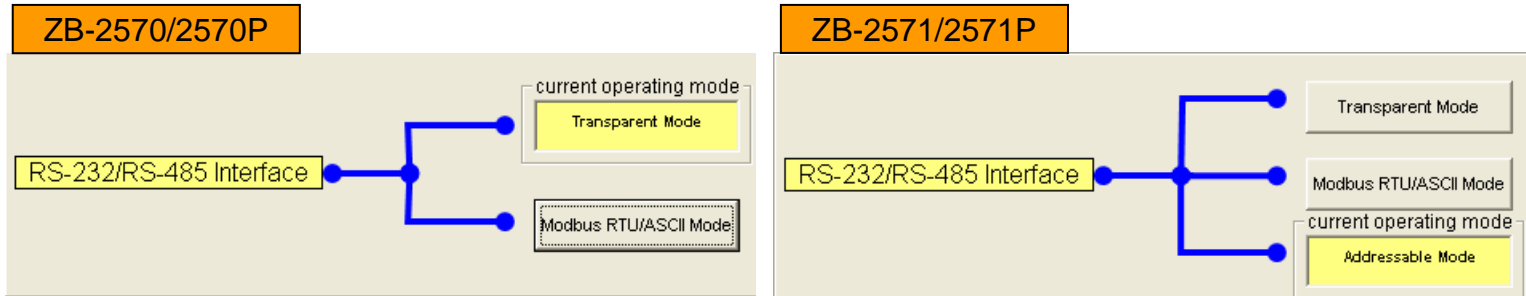
Operating Mode Parameters
Silent interval for Modbus Protocol 4 (default = 3.5 char time). [Help] [Set]

3. Serial Port Operating Mode 3 – Addressable Mode:

1. Operating Mode:

ZB-2570/2570P: RS-232/RS-485 Interface – **Transparent Mode**

ZB-2571/2571P: RS-232/RS-485 Interface – **Addressable Mode**



2. ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.

3. Interface Parameters: serial port (RS-232 or RS-485) parameters.

4. operating mode parameter: be equal to **Node ID**.

The screenshot shows the configuration interface for ZB-2570/2570P. It is divided into two main sections: 'Set the Parameters' and 'ZB-2570/2570P Serial Port Parameters'. In the 'Set the Parameters' section, the 'Pan ID' is set to 00 01, 'Node ID' is 00 00, 'Channel' is 1, and 'Encryption' is NO. In the 'Serial Port Parameters' section, the 'Baud Rate' is 115200, 'Data Bit' is 8, 'Parity Check' is None, and 'Stop Bit' is 1. There are 'Set' buttons next to the 'Channel' and 'Stop Bit' fields.

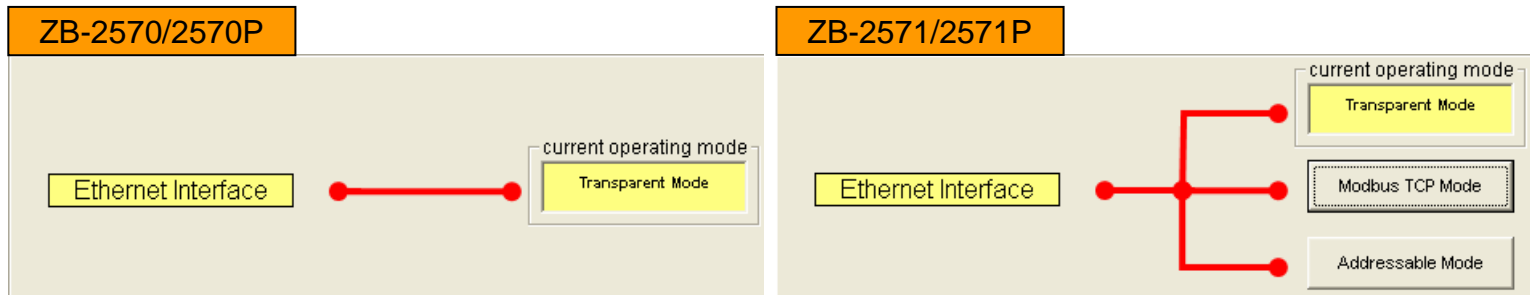
The screenshot shows the configuration interface for ZB-2571/2571P. It is divided into three main sections: 'Set the Parameters', 'ZB-2571/2571P Serial Port Parameters', and 'Operating Mode Parameters'. In the 'Set the Parameters' section, the 'Pan ID' is 00 01, 'Node ID' is 00 01, and 'Channel' is 1. In the 'Serial Port Parameters' section, the 'Baud Rate' is 115200, 'Data Bit' is 8, 'Parity Check' is None, and 'Stop Bit' is 1. In the 'Operating Mode Parameters' section, the 'Network Presence Detection Time Interval' is 20 sec. There are 'Set' buttons next to the 'Channel' and 'Stop Bit' fields, and 'Help' and 'Set' buttons next to the 'Network Presence Detection Time Interval' field.

4. Ethernet Operating Mode 1 – Transparent Mode:

1. Operating Mode:

ZB-2570/2570P: Ethernet Interface – **Transparent Mode**

ZB-2571/2571P: Ethernet Interface – **Transparent Mode**



2. ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.

3. Interface Parameters: IP, Mask, Gateway, Port.

ZB-2570/2570P

Set the Parameters

| | |
|--|--|
| Pan ID: <input type="text" value="00"/> <input type="text" value="01"/> (please enter the hex value) | ZB-2570/2570P Ethernet Parameters |
| Node ID: <input type="text" value="00"/> <input type="text" value="00"/> (please enter the hex value) | |
| Channel: <input type="text" value="1"/> (range: 0~F) <input type="button" value="Set"/> | |
| Encryption: <input type="text" value="NO"/> <input type="button" value="Set"/> | |

| |
|--|
| IP: <input type="text" value="192.168.255.1"/> |
| Mask: <input type="text" value="255.255.0.0"/> |
| Gateway: <input type="text" value="192.168.0.1"/> |
| Port: <input type="text" value="10000"/> <input type="button" value="Set"/> |

ZB-2571/2571P

Set the Parameters

| | |
|---|--|
| Pan ID: <input type="text" value="00"/> <input type="text" value="01"/> (please enter the hex value) | ZB-2571/2571P Ethernet Parameters |
| Node ID: <input type="text" value="00"/> <input type="text" value="01"/> (please enter the hex value) | |
| Channel: <input type="text" value="1"/> (range: 0~F) <input type="button" value="Set"/> | |
| Network Presence Detection Time Interval: <input type="text" value="20"/> sec <input type="button" value="Help"/> <input type="button" value="Set"/> | |

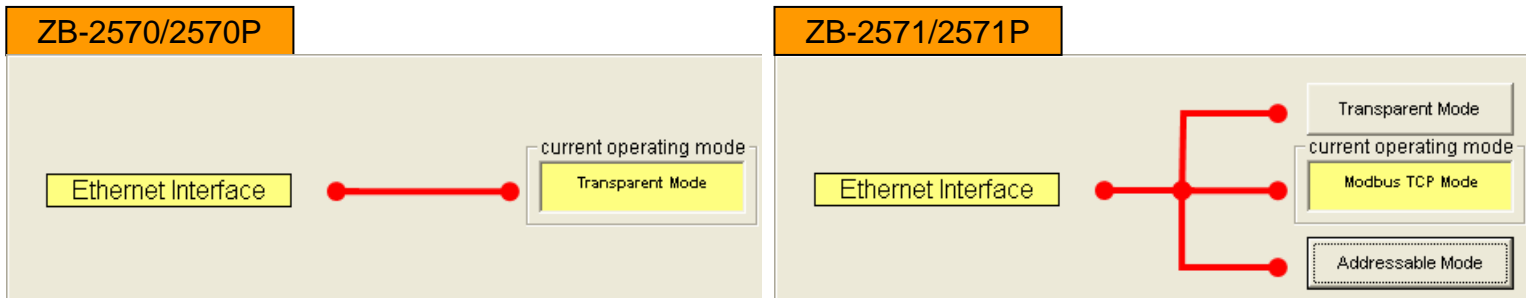
| |
|--|
| IP: <input type="text" value="192.168.255.1"/> |
| Mask: <input type="text" value="255.255.0.0"/> |
| Gateway: <input type="text" value="192.168.0.1"/> |
| Port: <input type="text" value="10000"/> <input type="button" value="Set"/> |

5. Ethernet Operating Mode 2 – Modbus TCP Mode:

1. Operating Mode:

ZB-2570/2570P: Ethernet Interface – **Transparent Mode**

ZB-2571/2571P: Ethernet Interface – **Modbus TCP Mode**



- ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.
- Interface Parameters: IP, Mask, Gateway, Port.
- operating mode parameter: the mapping address and the modbus tcp device ethernet parameters.

ZB-2570P

Set the Parameters

Pan ID: 00 01 (please enter the hex value)

Node ID: 00 00 (please enter the hex value)

Channel: 1 (range: 0~F)

Encryption: NO

ZB-2570/2570P Ethernet Parameters

IP: 192.168.255.1

Mask: 255.255.0.0

Gateway: 192.168.0.1

Port: 10000

ZB-2571P

Set the Parameters

Pan ID: 00 01 (please enter the hex value)

Node ID: 00 01 (please enter the hex value)

Channel: 1 (range: 0~F)

Network Presence Detection Time Interval: 20 sec

Operating Mode Parameters

NodeID: XX 01

Enter the address of the device to be mapped 01

ZB-2571/2571P Ethernet Parameters

IP: 192.168.255.1

Mask: 255.255.0.0

Gateway: 192.168.0.1

Port: 10000

Modbus TCP Module Ethernet Parameters

IP: 192.168.255.2

Mask: 255.255.0.0

Gateway: 192.168.0.1

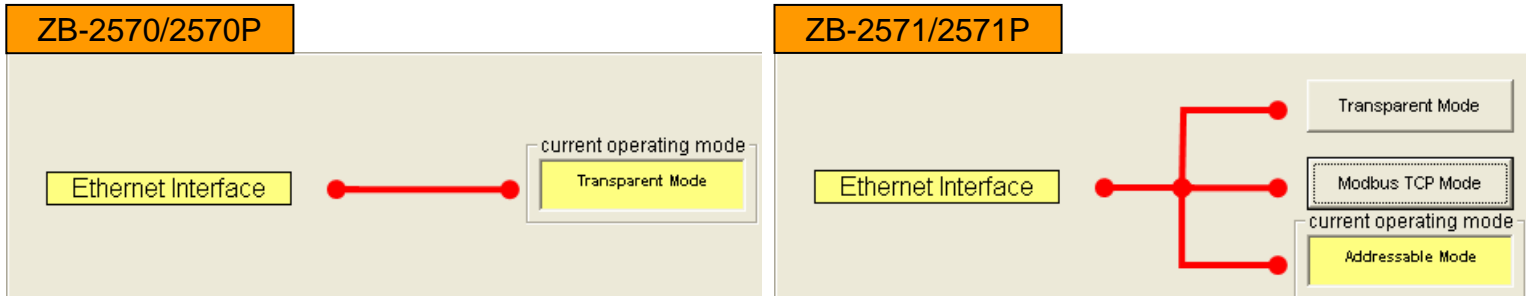
Port: 10000

6. Ethernet Operating Mode 3 – Addressable Mode:

1. Operating Mode:

ZB-2570/2570P: Ethernet Interface – **Transparent Mode**

ZB-2571/2571P: Ethernet Interface – **Addressable Mode**



2. ZigBee Parameters: the **Pan ID** and the **Channel** must be the same as each other.

3. Interface Parameters: IP, Mask, Gateway, Port.

4. Operating mode parameters: must be equal to **Node ID**.

ZB-2570/2570P

Set the Parameters

| | |
|---|---|
| Pan ID: 00 01 (please enter the hex value) | ZB-2570/2570P Ethernet Parameters |
| Node ID: 00 00 (please enter the hex value) | |
| Channel: 1 (range: 0~F) <input type="button" value="Set"/> | |
| Encryption: NO <input type="button" value="Set"/> | IP: 192.168.255.1 |
| | Mask: 255.255.0.0 |
| | Gateway: 192.168.0.1 |
| | Port: 10000 <input type="button" value="Set"/> |

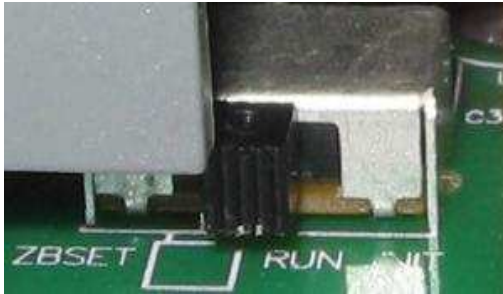
ZB-2571/2571P

Set the Parameters

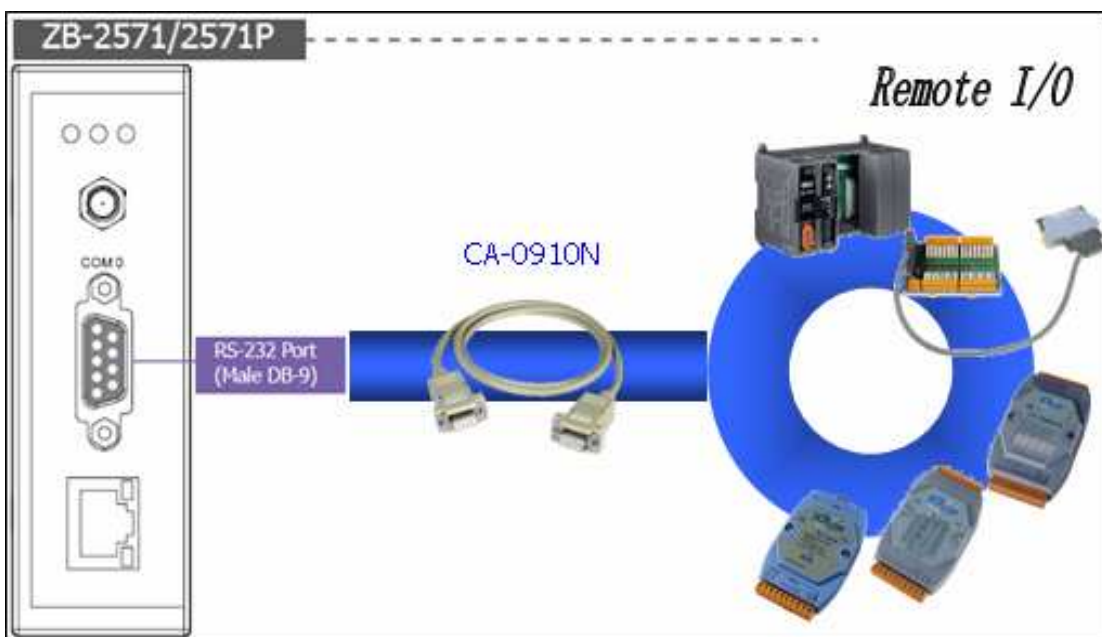
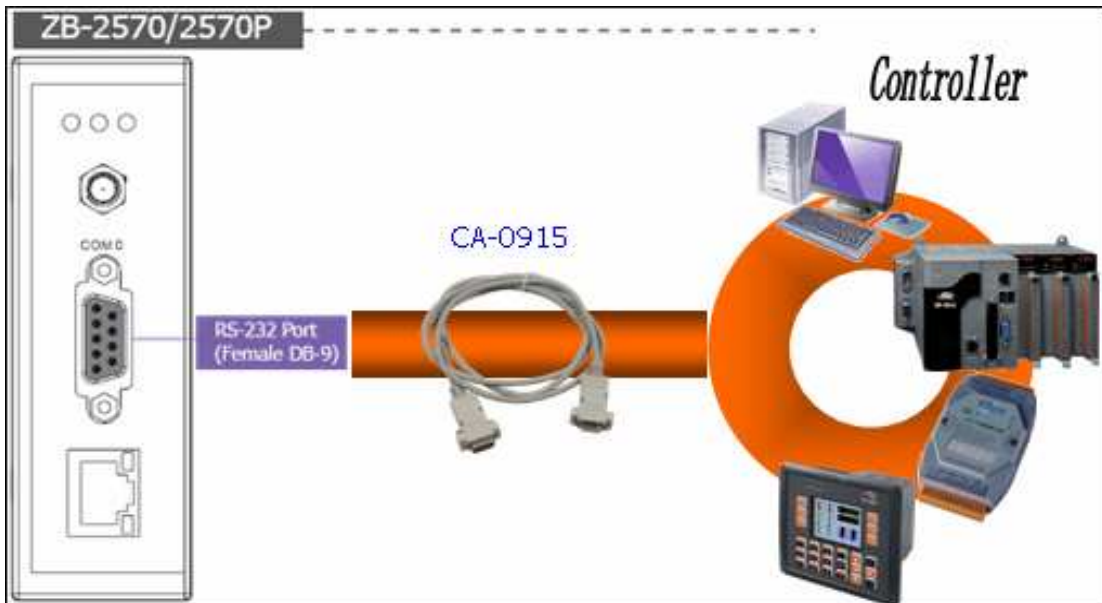
| | |
|--|---|
| Pan ID: 00 01 (please enter the hex value) | ZB-2571/2571P Ethernet Parameters |
| Node ID: 00 01 (please enter the hex value) | |
| Channel: 1 (range: 0~F) <input type="button" value="Set"/> | |
| Network Presence Detection Time Interval: 20 sec <input type="button" value="Help"/> <input type="button" value="Set"/> | IP: 192.168.255.1 |
| | Mask: 255.255.0.0 |
| | Gateway: 192.168.0.1 |
| | Port: 10000 <input type="button" value="Set"/> |
| Operating Mode Parameters The connected device ID is used to address a non-addressable device and is equal to the Node ID. <input type="button" value="Help"/> | |

5.5 Installing the Hardware

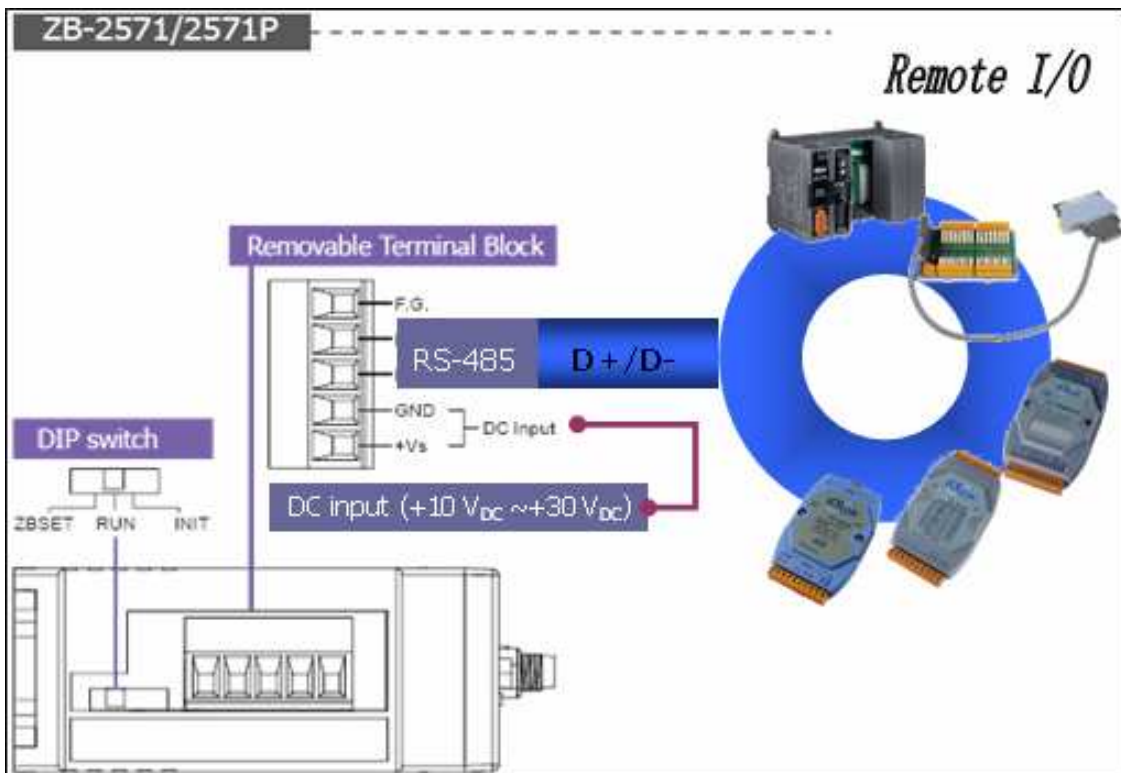
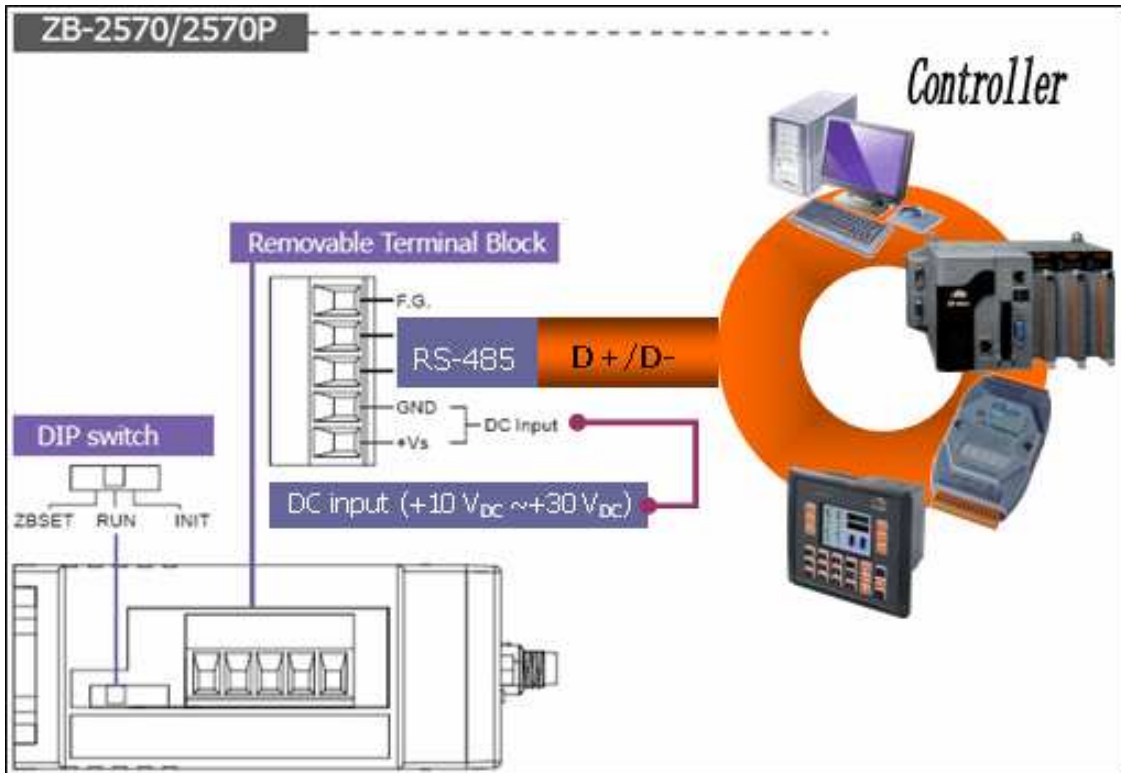
1. Adjust the switch to the **RUN** position then power on the module.



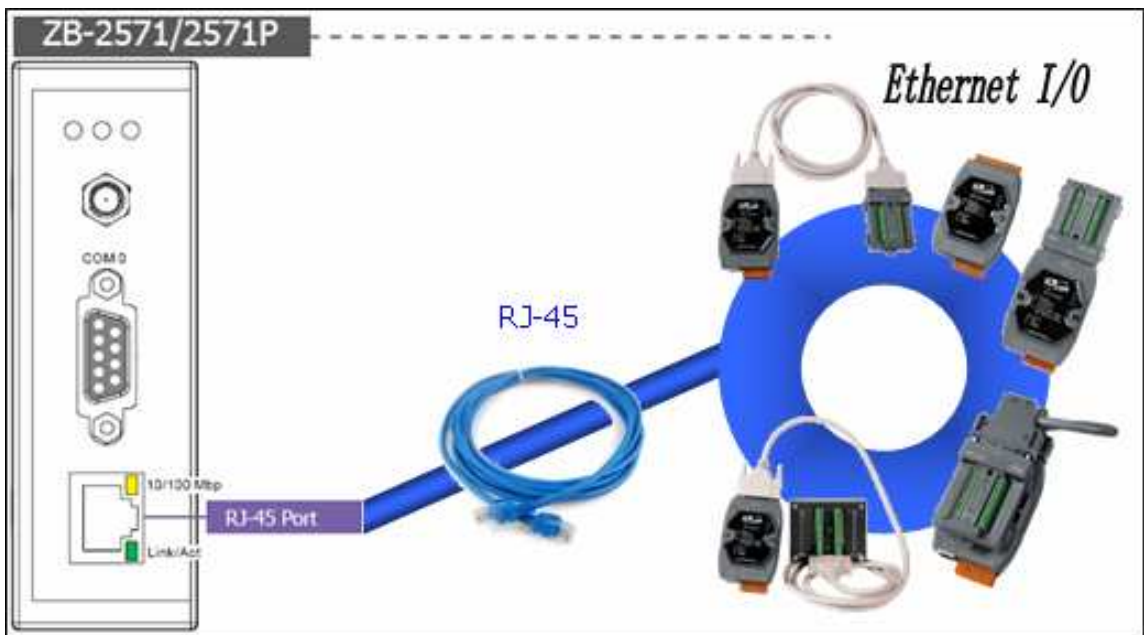
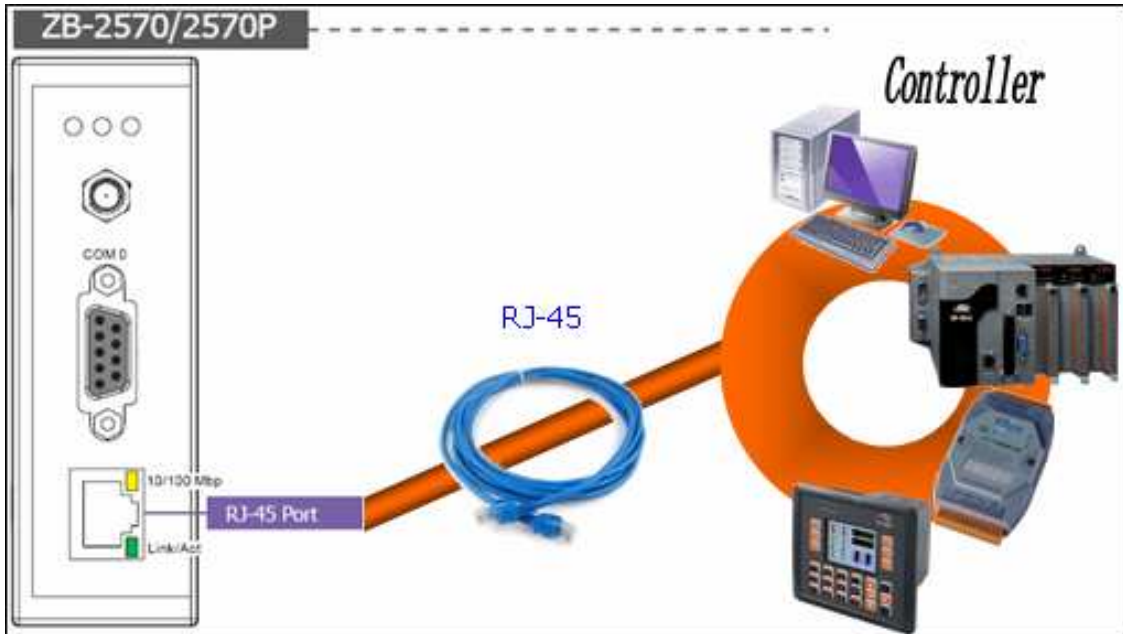
2. Serial Port - RS-232



3. Serial Port - RS-485



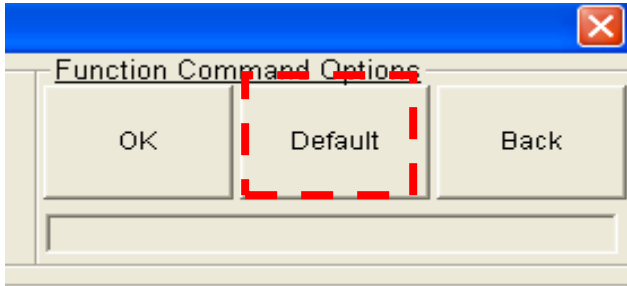
4. Ethernet – RJ-45



6. Appendix

6.1 Resetting parameters to default:

1. In the set parameters dialog box (page 23), click the **Default** button.



2. The ZB-2570/2570P default settings:

| | | |
|--------------------------------|------------------|---------------|
| Pan ID | 00 01 | |
| Node ID | 00 00 | |
| RF Channel | 1 | |
| Encryption | No | |
| Operating Mode | Transparent Mode | |
| Serial Port Interface settings | 115200, N, 8, 1 | |
| Ethernet Interface settings | IP | 192.168.255.1 |
| | Mask | 255.255.0.0 |
| | Gateway | 192.168.0.1 |
| | Port | 10000 |

3. The ZB-2571/2571P default settings:

| | | |
|--|------------------|---------------|
| Pan ID | 00 01 | |
| Node ID | 00 01 | |
| RF Channel | 1 | |
| Network Presence Detection Time Interval | 20 sec | |
| Operating Mode | Transparent Mode | |
| Serial Port Interface settings | 115200, N, 8, 1 | |
| Ethernet Interface settings | IP | 192.168.255.1 |
| | Mask | 255.255.0.0 |
| | Gateway | 192.168.0.1 |
| | Port | 10000 |

6.2 Included Cables:

| Module | Cable | Description |
|---------------|----------|---|
| ZB-2570/2570P | CA-0915 | 9-pin female D-sub and 3-wire RS-232 cable, 1M Cable. |
| ZB-2571/2571P | CA-0910N | 9-pin female-female D-sub cable, 1M Null Modem Cable. |

6.3 Network Status Detection Time Setting:

If the setting value is 20, it means that every 20 seconds a packet will be sent to confirm the status of the network. If communication is disconnected, then self-recovery of the network will occur. If the value is set to 0, the mechanism will be turned off.



6.4 Setting Tool download location:

website:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zigbee_converter/zb_257x/utility/

CD path:

[\Napdos\ZigBee\ZigBee_Converter\ZB-257x\Utility\](#)

6.5 Document download location:

website:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zigbee_converter/zb_257x/document/

CD path:

[\Napdos\ZigBee\ZigBee_Converter\ZB-257x\ Document \](#)

6.6 ZigBee Products website:

http://www.icpdas.com/products/GSM_GPRS/wireless/solutions.htm#6

6.7 Technical Service:

If you have any questions, send a description of your problem to:

service@icpdas.com

7. Ordering Information

| ZigBee Converter | |
|------------------|--|
| ZB-2570 CR | Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS) |
| ZB-2570/S CR | Ethernet/RS-485/RS-232 to ZigBee Converter (Host) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2571 CR | Ethernet/RS-485/RS-232 to ZigBee Converter (Slave) (RoHS) |
| ZB-2571/S CR | Ethernet/RS-485/RS-232 to ZigBee Converter (Slave) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2570P CR | Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS) |
| ZB-2570P/S CR | Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2571P CR | Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS) |
| ZB-2571P/S CR | Ethernet/RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS)+ GPSU06U-6 (Power Supply) |

8. Accessories

| ZigBee Converter | |
|------------------|---|
| ZB-2550 CR | RS-485/RS-232 to ZigBee Converter (Host) (RoHS) |
| ZB-2550/S CR | RS-485/RS-232 to ZigBee Converter (Host) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2551 CR | RS-485/RS-232 to ZigBee Converter (Slave) (RoHS) |
| ZB-2551/S CR | RS-485/RS-232 to ZigBee Converter (Slave) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2550P CR | RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS) |
| ZB-2550P/S CR | RS-485/RS-232 to High Power Amplifier ZigBee Converter (Host) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZB-2551P CR | RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS) |
| ZB-2551P/S CR | RS-485/RS-232 to High Power Amplifier ZigBee Converter (Slave) (RoHS)+ GPSU06U-6 (Power Supply) |
| ZigBee Repeater | |
| ZB-2510 CR | ZigBee Repeater (RoHS) |
| ZB-2510/S CR | ZigBee Repeater (RoHS) + GPSU06U-6 (Power Supply) |
| ZB-2510P CR | High Power Amplifier ZigBee Repeater (RoHS) |
| ZB-2510P/S CR | High Power Amplifier ZigBee Repeater (RoHS) + GPSU06U-6 (Power Supply) |
| ZigBee DIO | |
| ZB-2052 CR | Wireless 8-ch Isolated Digital Input Module with 16-bit Counters (RoHS) |
| ZB-2060 CR | Wireless 6-ch Isolated Digital Input and 4-ch Relay Output Module (RoHS) |