



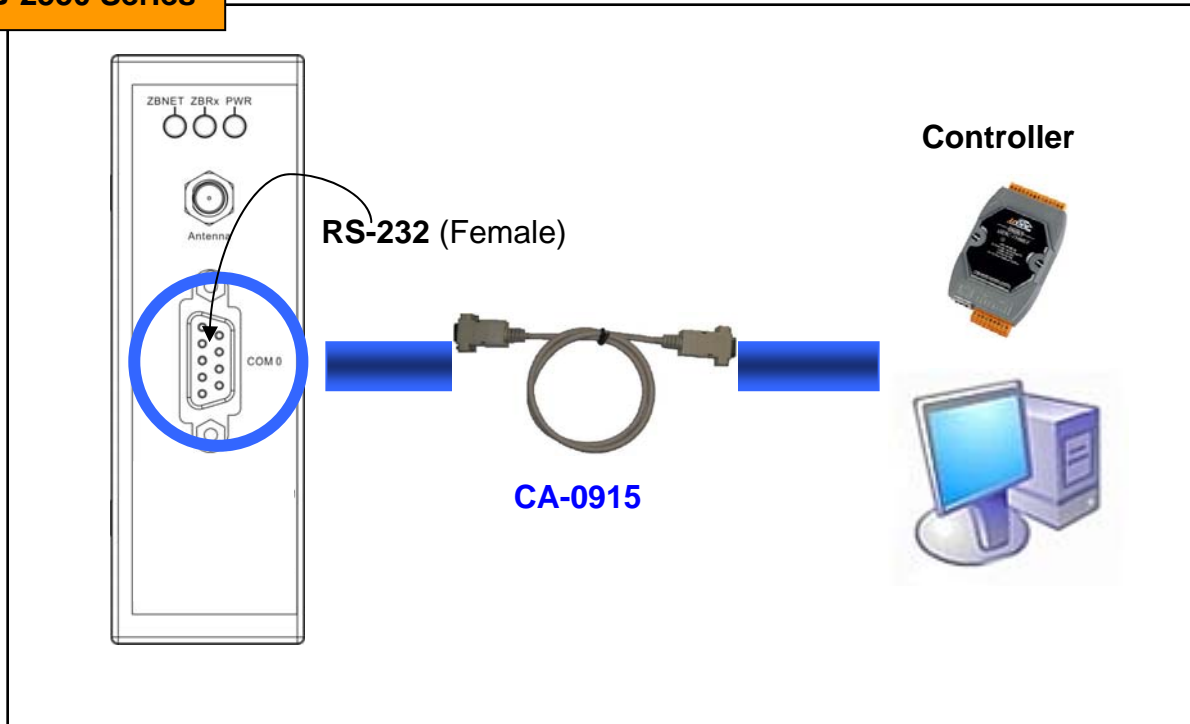
ZB-2550/ZB-2551 Series

Quick Start Guide

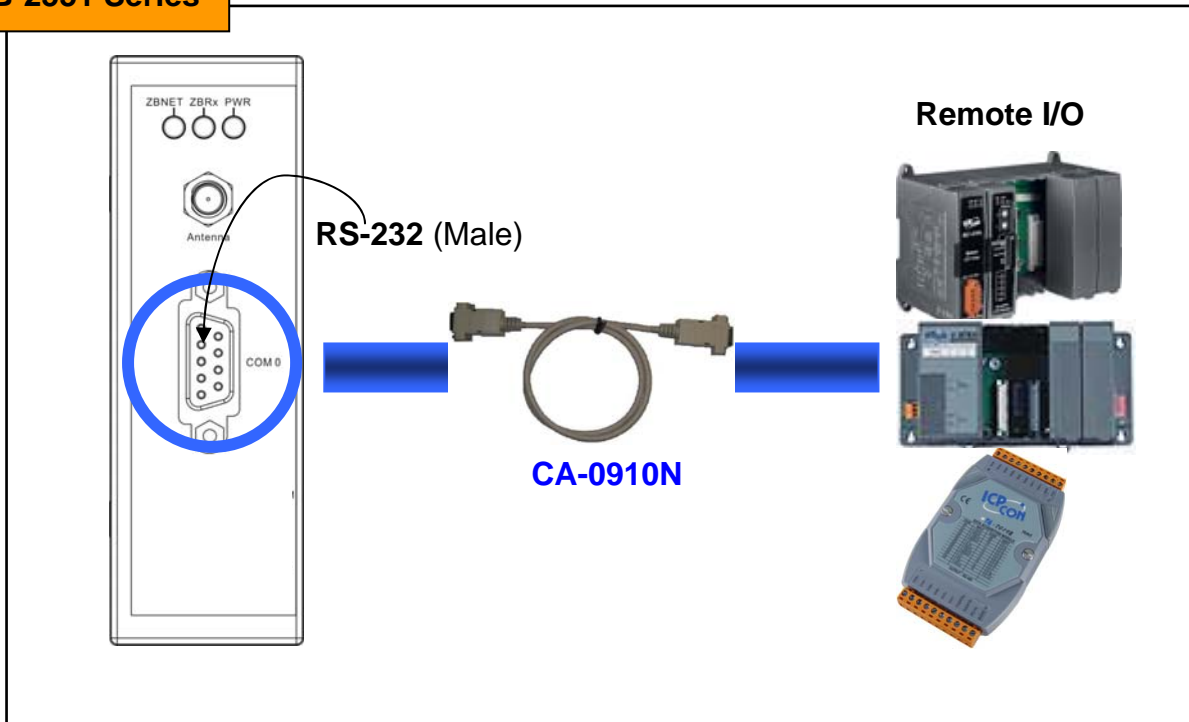
1. Installing the Hardware

➤ Serial Port - RS-232

ZB-2550 Series

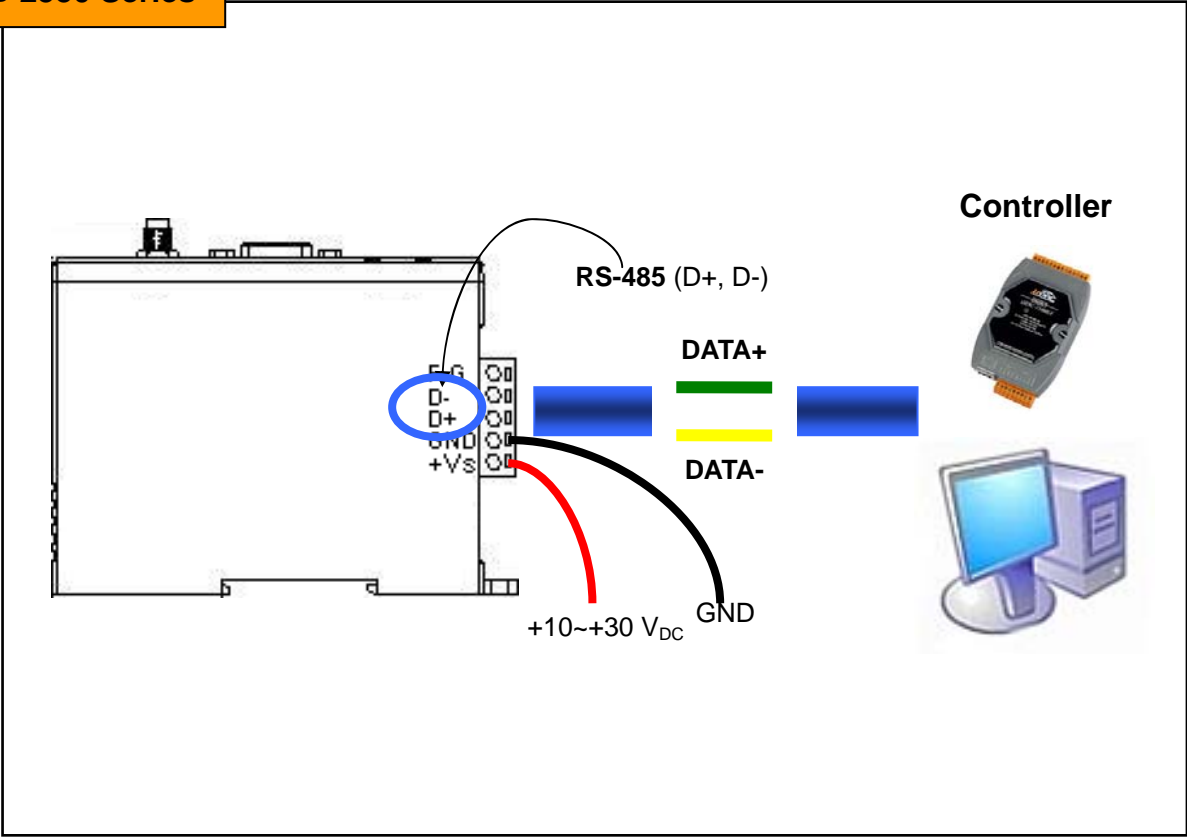


ZB-2551 Series

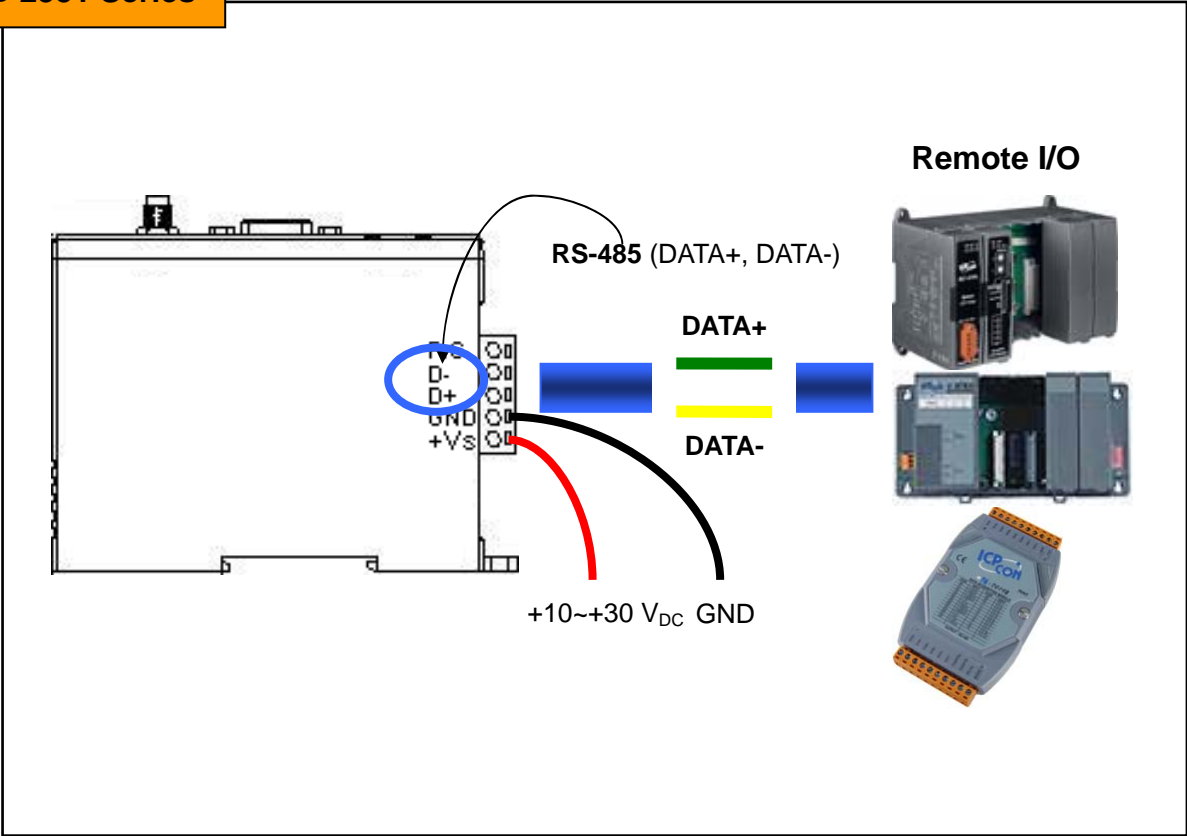


➤ Serial Port - RS-485

ZB-2550 Series



ZB-2551 Series



2. Configuration Tool

1. Download the file from:

FTP path:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zigbee_converter/zb_255x/utility/

CD path:

CD:\Napdos\ZigBee\ZigBee Converter\ZB_255x

2. **Double click the** setup_zigbee_configuration_utility_ver_5.x.x.exe to install the configuration utility.

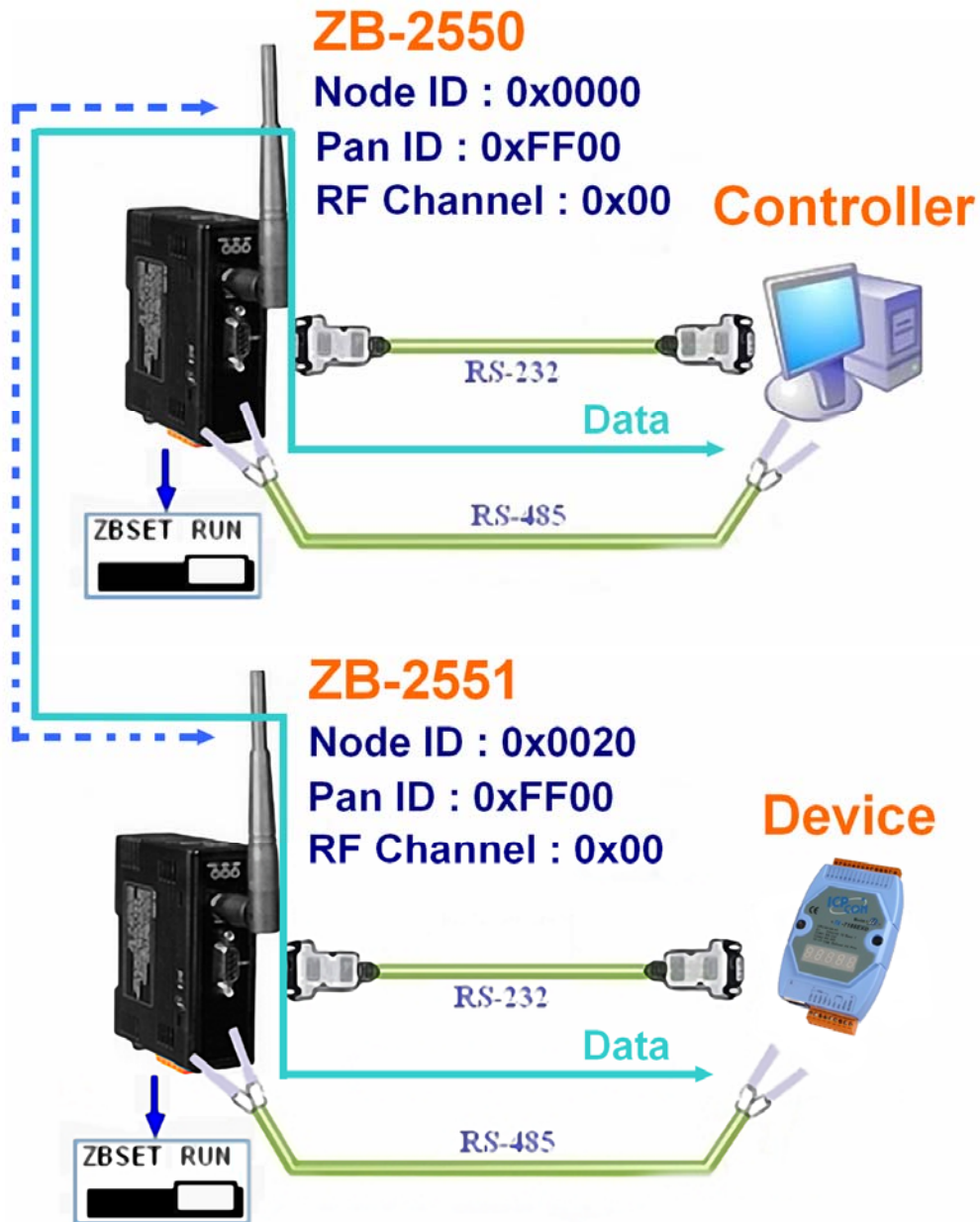
After installing the ZB-Zigbee Utility, the executable file can be found at:

<Start\ICPDAS\ZigBee Configuration Utility Ver5.x.x>



3. Quick Start for the ZB-2550 and ZB-2551 series

Adjust the switch to the **RUN** position then re-boot (power off/on) the module. Leverage the power of your data. Make it work for you.



Zigbee Addressing and Identifiers

- **Node ID (0x0000~0xFFFF)**

A 16-bit address that describes a Zigbee node

Randomly assigned during network join

ZB-2570/ZB-2550 series always uses 0x0000

ZB-2571/ZB-2551 series ranges 0x0001~0xFFFF

ZB-DIO/ZB-AIO ranges 0x0001~0x001F

Resolve by stack in case of collision

Included in all message to identify node

- **PAN ID (0x0000~0xFFFF)**

A 16-bit ID to identify the network

Included in every packet

A “logical” way to separate Zigbee networks running on same RF channel

Defined during network formation by ZB-2570/ZB-2550 series

ZB-DIOs/ZB-AIOs always use 0xFF00 or 0xFF01

- **RF Channel**

16 RF channels defined during network formation by

ZB-2570/ZB-2550 series

Note:

A Work Zigbee Network - Running on the same PAN ID and RF Channel

- **Network Survival Detecting Time**

ZB-2551 series will connect with Parent (ZB-2550 series) periodically to confirm the survival of network. If it detects unsuccessfully, and it process initialize network again to find a new parent.

4. Appendix

I. LED Display Indicator

LED	Status	LED
ZBNet (Green LED)	Blinking	ZigBee mesh not established
	Steady	ZigBee mesh has been successfully created.
ZigBee RxD (Yellow LED)	Blinking	Receive a data from other ZigBee modules.
	Steady unlight	No data input.
PWR (Red LED)	Blinking	Watch dog enabled
	Steady light	power on
	Steady unlight	Power off.

A. The LED status of ZB-2550 series:

User will see the red LED and the green are light steady.

If it receives any ZigBee signals, the ZigBee RxD LED will be blinking when receiving.

B. The LED status of ZB-2551 series:

User will see the red LED light steady and the green LED blinking for seconds. Once the green LED is continually illuminated, it means that the ZigBee mesh has been successfully created. If it receives any ZigBee signals, the ZigBee RxD LED will be blinking when receiving.

II. Setting Tool download website:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zigbee_converter/zb_255x/utility/

III. Setting Tool download CD path:

CD:\Napdos\ZigBee\ZigBee_Converter\ZB_255x

IV. Document download website:

<http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/>

V. Document download CD path:

<CD:\Napdos\ZigBee\>

VI. ZigBee Product website:

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

VII. Technical Service:

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

service@icpdas.com