ZT-2510 Quick Start Guide

1 What's in the shipping package?

The package includes the following items:
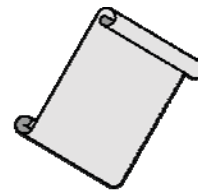

| ZT-2510 Device | ANT-124-05 | CA-USB18 | Release Note | CD |

> If any of these items are missing or damaged, please contact the local distributor for more information. Save the shipping materials and cartons in case you want to ship the module in the future.
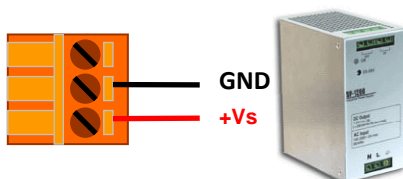
2 Preparations for devices

1. Install ZT Configuration Utility (v1.0.0 or later)：
   CD: \Napdos\ZigBee\ZT_Series\Utility
   http://ftp.icpdas.com/pub/cd/usbcd/napdos/zigbee/zt_series/utility
2. Power Supply：+10 ~ +30V$_{DC}$

GND
+Vs

3 *Introduction of configurations*

A. **"Pan ID"** is the group identity of a ZigBee network, and must be the same if they are in the same ZigBee network.
(Valid values range from 0x0000 to 0x3FFF)

B. **"Node ID"** is the identity of the ZigBee module.
The identity number must be unique if it is in the same ZigBee network as other ZigBee module. (Valid values range from 0x0001 to 0xFFF7 for a ZigBee Router, but is fixed to 0x0000 for a ZigBee Coordinator)

C. **"RF Channel"** indicates the radio frequency channel, and must be set to the same channel if the module is in the same ZigBee network as other ZigBee modules.

頻道編號	0x00	0x01	……	0x0F
頻率(MHz)	2405	2410	……	2480

Note:

In addition, the RF channels 0x04, 0x09, 0x0E or 0x0F are recommended because they do not overlap with frequencies Wi-Fi.
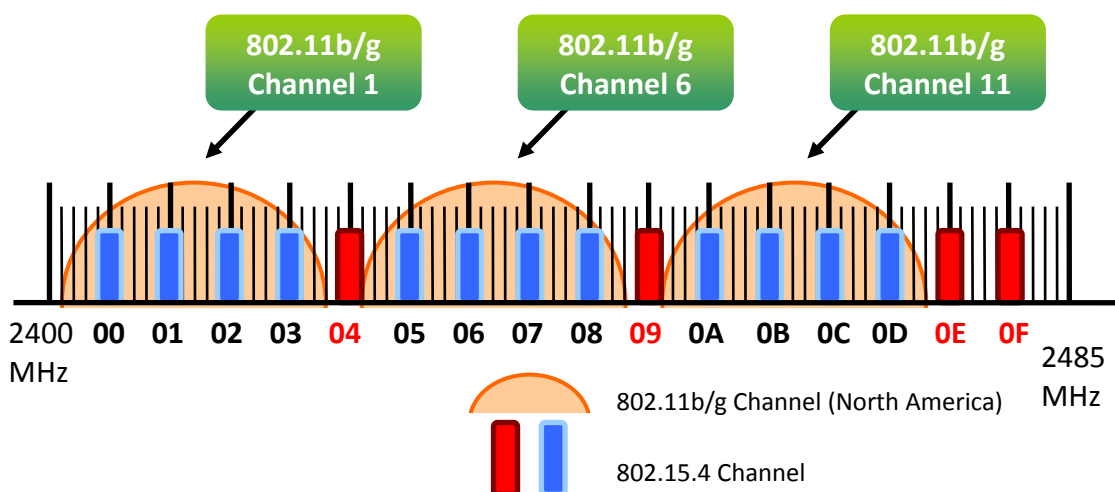
D. "RF Power" denotes the wireless transmit power value.

Code	Note
0x0F	Typical Maximum
0x08	Fit the CE/FCC certification
0x00	Typical Minimum

※ *The parameter adjustment purely personal behavior, ICP DAS can not guarantee to pass CE/FCC certification if adjusting this parameter, nor assume any liability because of the adjustment parameters derived from the RF Power.*

4 Connecting the Power and Host PC

1. Connect the USB port of ZT-2510 and then you can start configuration.

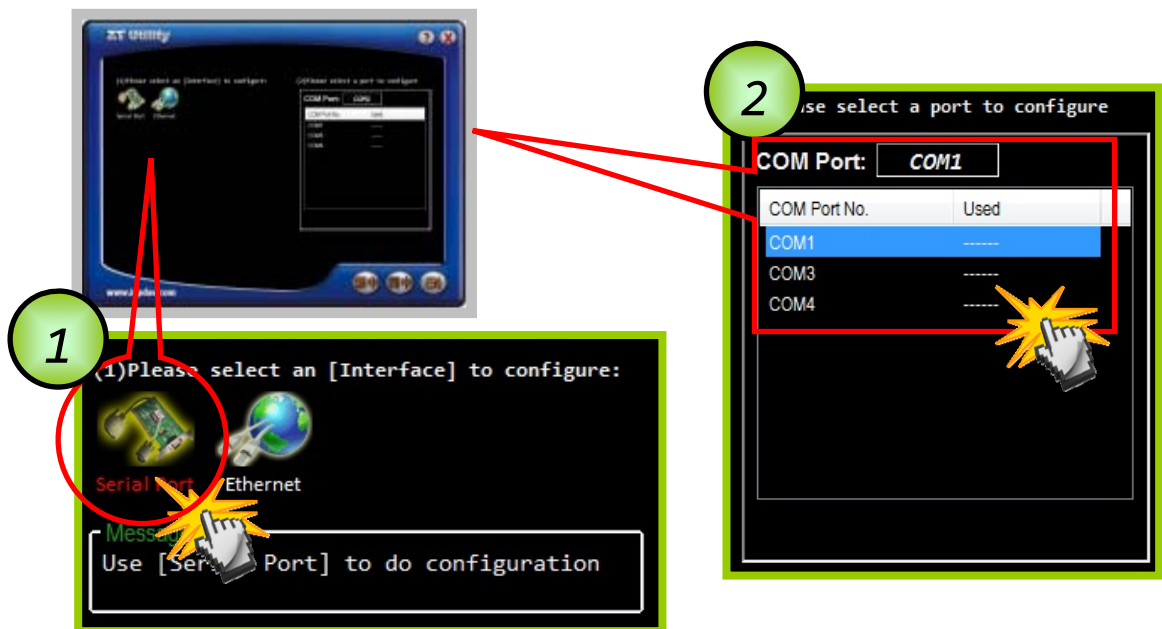
ZT-2510：

CA-USB18

Windows Based PC
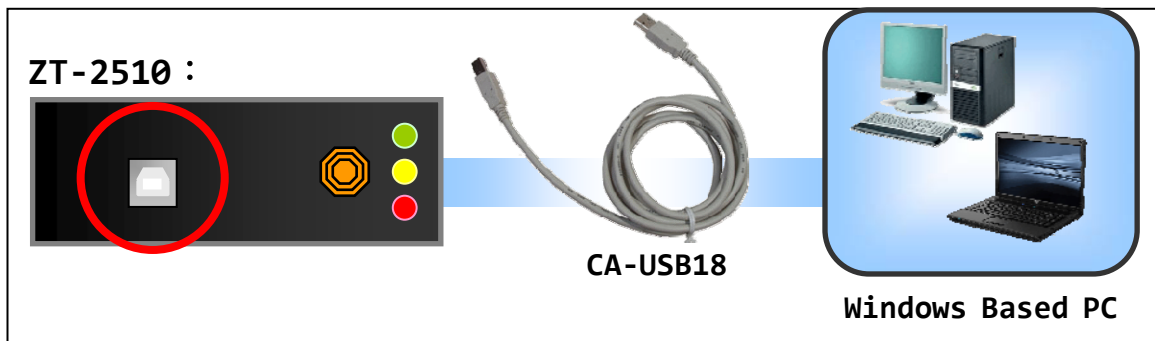
5 Configuring ZigBee Setting

1. Launch the "ZT Configuration Utility" and click the [ZT Series] button

2. Click the [Serial Port] icon and then select the COM Port number.

3. After selecting the COM Port number, a list of model numbers will be displayed. Select the name of the module that you want to configure. After clicking the button, the utility will begin checking the connection.


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4. Once a connection is established, select either the [Default] or the [Wizard] function from the settings mode page.
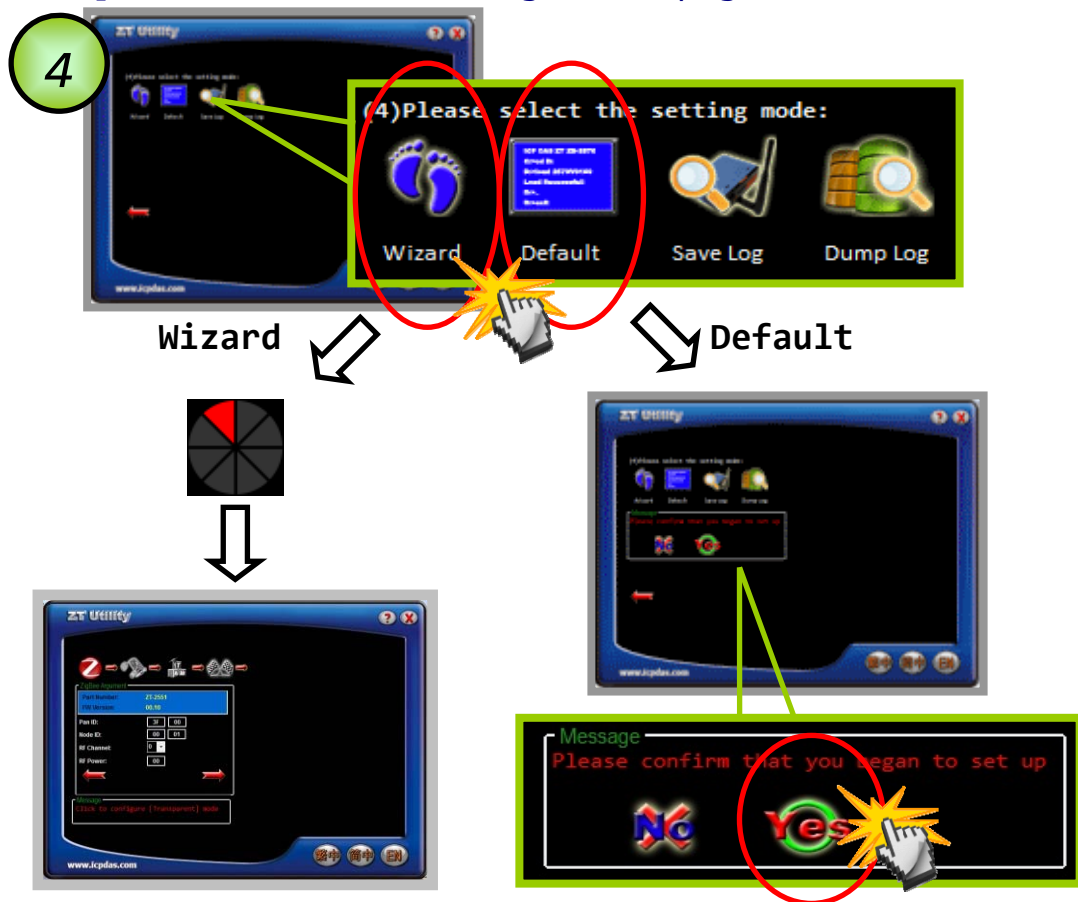
Wizard   **Default**

5. Whether you select either the [Default] or the [Wizard] option for performing configuration, both are used to configure the Pan ID, Node ID, RF Channel, RF Power and so the relevant parameters.

6. Once the module configuration has been completed, the message "The Configuration was successful" will be displayed and it means the configuration has completed.
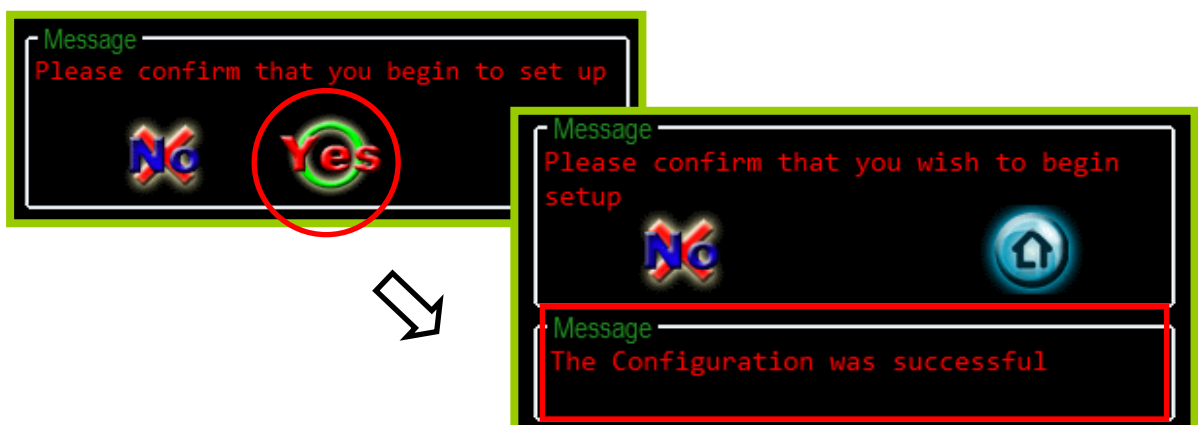
6 Trouble shooting

(1) Technical Support.

If you are any difficulties using the ZT-255x module, save the ZigBee configurations using the described below. Please also provide a description of problem and attach file to an email and send it to service@icpdas.com

1. Set the DIP switch of the ZT-255x device to the [ZBSET] position then reboot the device. Launch the ZT Configuration Utility and select [Save Log] icon to save the configuration of ZT-255x as a file.

2. After clicking the [Save Log] icon, enter the "File Name" and "File Path" in the Windows save dialog. Once the configuration has been successfully saved, the following message will be displayed.
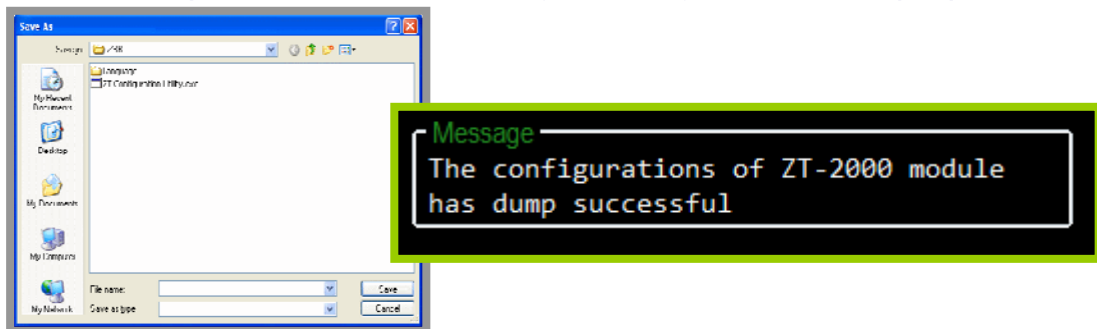
(2) LED Indicator Status :

LED Indicator	Status	Introduction
ZigBee Net (Green LED)	The status of ZigBee network [ZigBee Router (Slave)]	
	Steady Lit	Signal Strength
	Blinking (500 ms)	Signal Available
	Blinking (1s)	Signal Weak
	Blinking (2s)	Signal Terrible or No ZigBee Network
ZigBee RxD (Yellow LED)	The status of ZigBee communication	
	Blinking	Receiving ZigBee data
	Steady Unlit	No ZigBee data received
ZigBee PWR (Red LED)	The status of module board	
	Steady Lit	Power on
	Steady Unlit	Power off