ZT-2510 Quick Start

v2.0, Jul 2022

Packing List

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

ZT-2510

ANT-124-05

CA-USB18

Technical Support

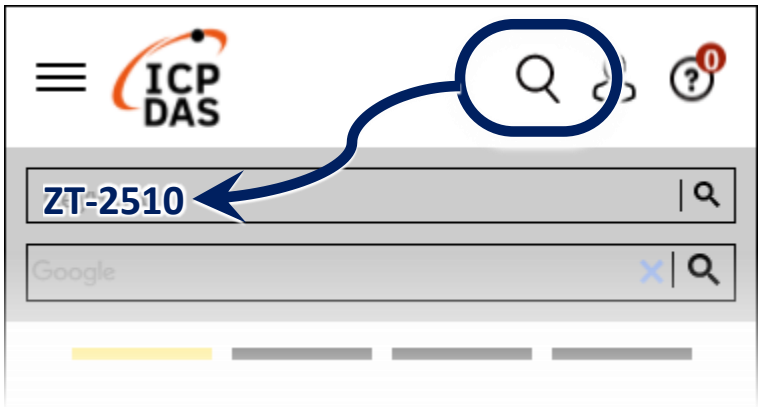
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

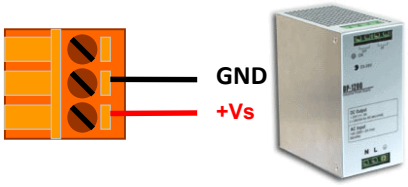
- For Mobile Web



- For Desktop Web

1 Preparations for use

1.1 Power Supply：+10 ~ +30V_{DC}



1.2 Install driver

Please confirm whether there is the word [V2] in the lower right corner of the module model, and select the appropriate driver to install according to the table below

Hardware Version / Operating System	Without the word [V2]	With the word [V2]
		
Windows 98	ZT-2510_Driver_Windows_98_ME_2K_XP	
Windows ME		
Windows 2000		
Windows XP		ZT-2510_V2_Driver_v2.08.30
Windows Vista	ZT-2510_Driver_Windows_Vista_7_8_10	ZT-2510_V2_Driver_v2.12.36.4
Windows 7		
Windows 8		
Windows 8.1		
Windows 10		
Linux	Please refer [ZT-2510 _Linux _UserManual] document https://www.icpdas.com/en/download/show.php?num=2836&model=ZT-2510	

1.3 Install ZT Configuration Utility

Please go to the following URL to download and install [ZT Configuration Utility].

https://www.icpdas.com/en/download/file.php?num=5320

2 Description of setting parameters

2.1 Pan ID

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

2.2 Node ID

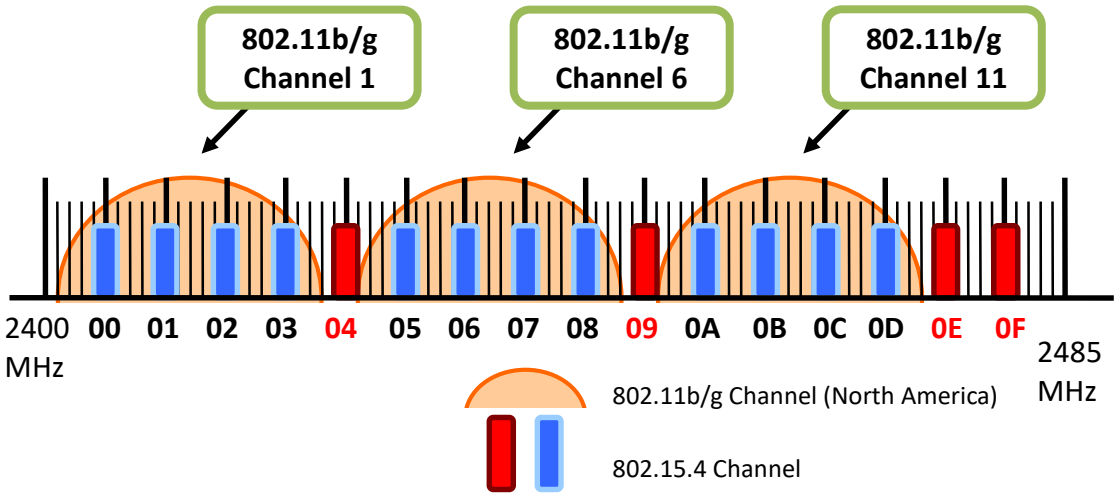
“Node ID” is the identity of the ZigBee module. The **“Node ID”** must be unique if it is in the same ZigBee network as other ZigBee module. (Valid values range from 0x0001 to 0xFFF7 for a ZigBee Router, but is fixed to 0x0000 for a ZigBee Coordinator)

2.3 RF Channel

“RF Channel” indicates the radio frequency channel. The **“RF Channel”** must be set to the same channel if the module is in the same ZigBee network as other ZigBee modules.

RF channel	0x00	0x01	……	0x0F
Frequency (MHz)	2405	2410	……	2480

In addition, the RF channels 0x04, 0x09, 0x0E or 0x0F are recommended because they do not overlap with frequencies Wi-Fi.



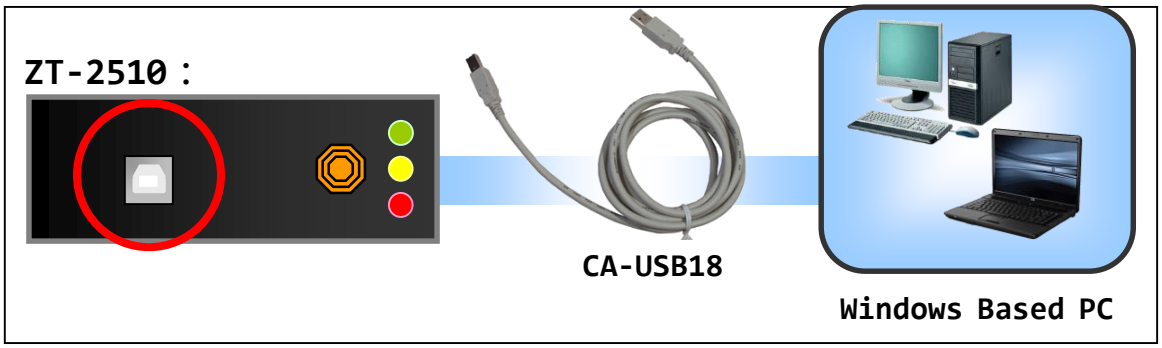
2.4 **“RF Power”** denotes the wireless transmit power value.

Hex Code	Description
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.

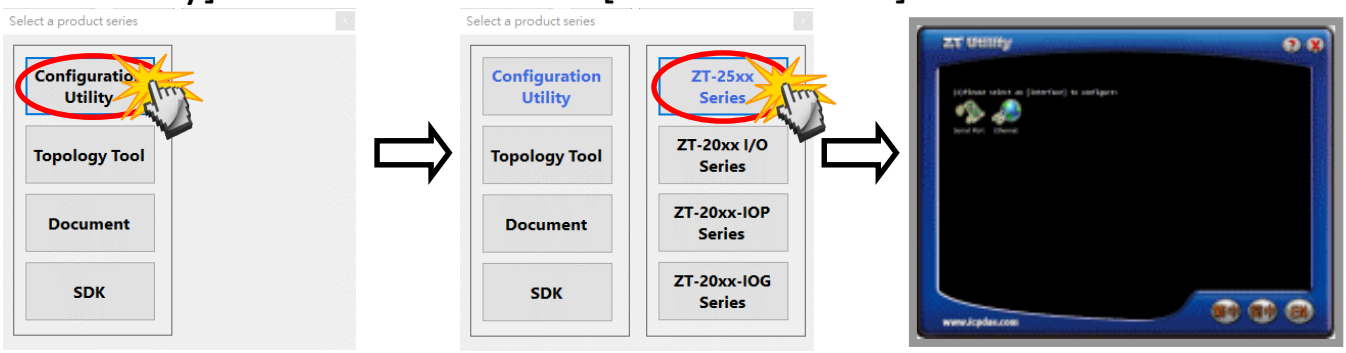
3 Connecting the Power and PC

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

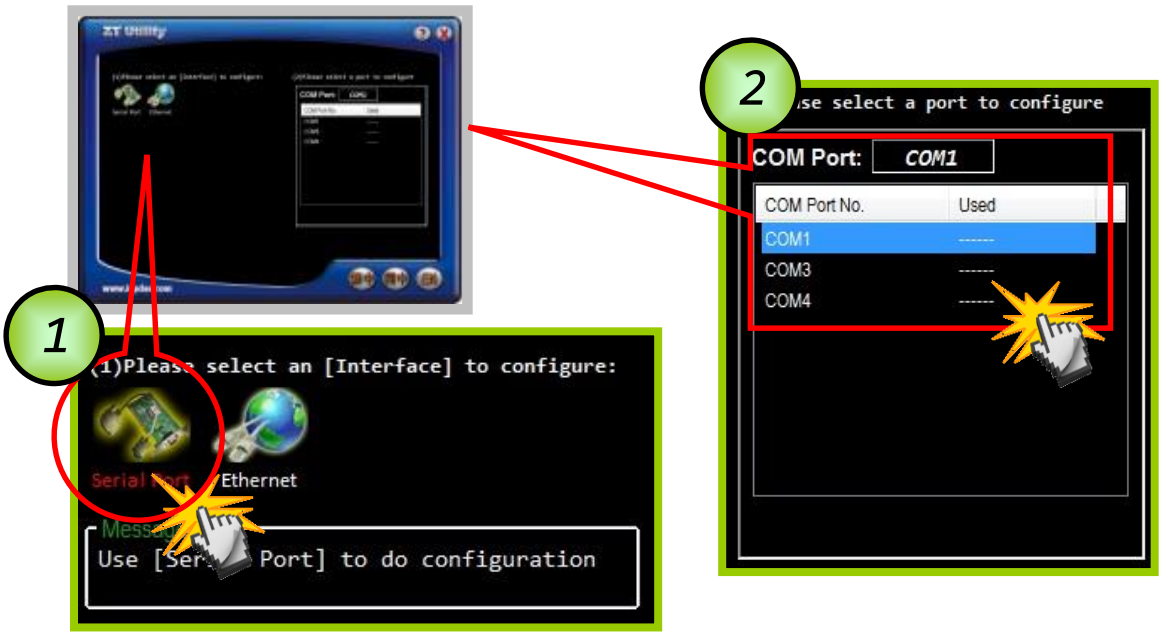


4 Configuring ZigBee Setting

4.1 Launch the “ZT Configuration Utility” → click the [Configuration Utility] button → click the [ZT-25xx Series] button

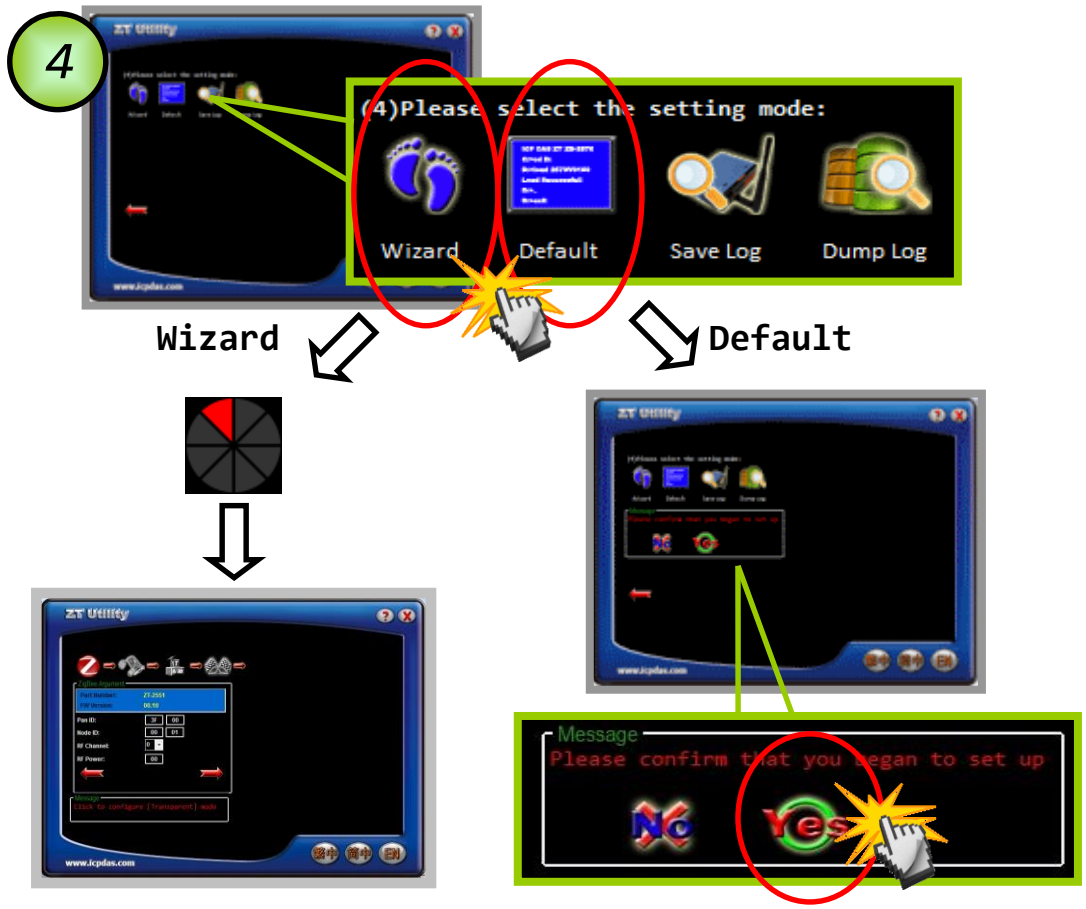


4.2 Click the [Serial Port] icon and then select the COM Port number connected to ZT-2510.



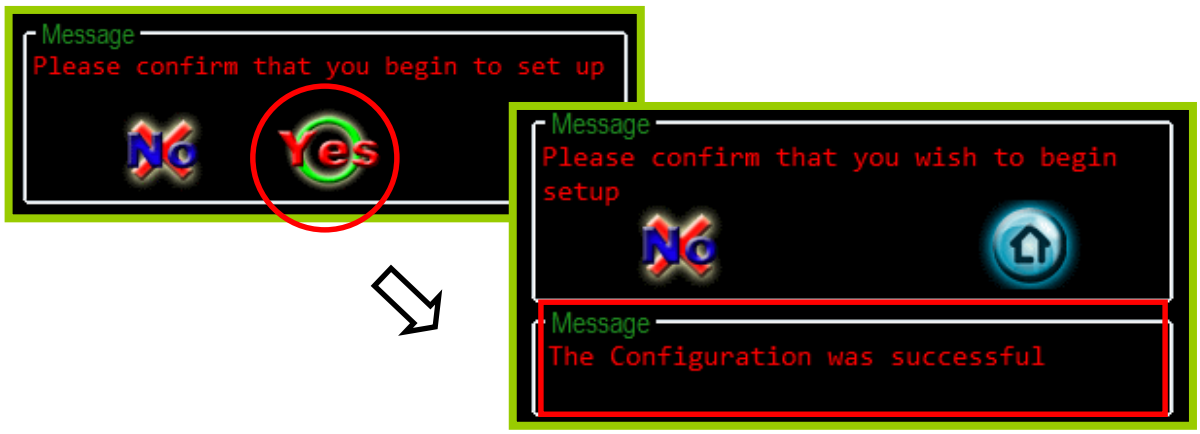
4.3 After selecting the COM Port number, a list of model numbers will be displayed. Select the [ZT-2510] to configure. After clicking the button, the utility will begin checking the connection.

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



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.

4.5 Once the module configuration has been completed, the message “The Configuration was successful” will be displayed and it means the configuration has completed.



5 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

6 Technical Support

If you are any difficulties using the ZT-2510 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.

6.1 Connect the ZT-2510 to the PC via USB. Launch the ZT Configuration Utility and select [Save Log] icon to save the configuration of ZT-2510 as a file.

6.2 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.