Sensingtek Product Set-up Menu

V1.1

2008.08.08

Product Setup

software:

ITRI NuSens RF24 Engineering tool

Tool or Interface:

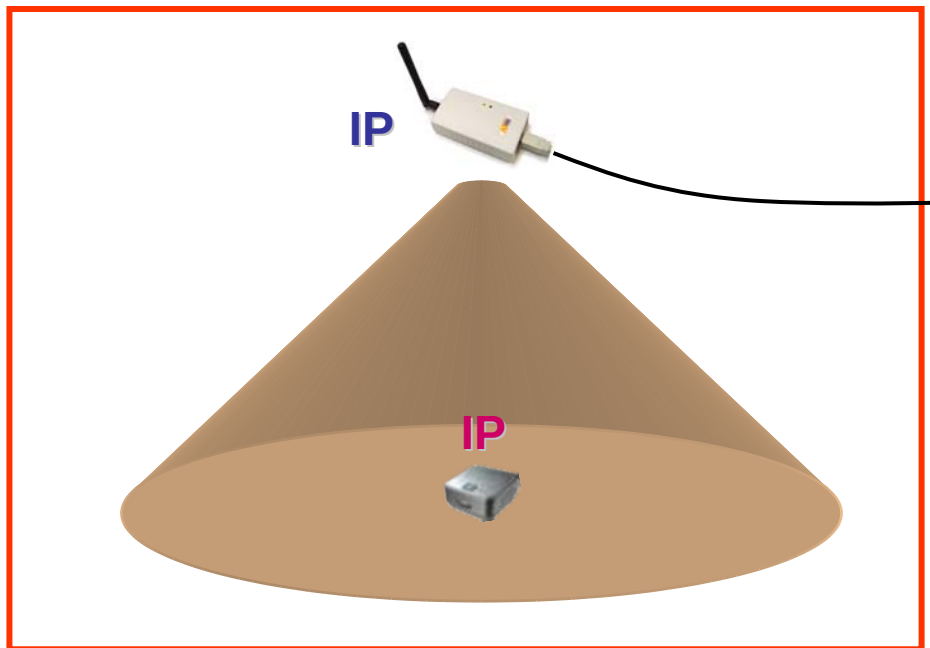
(1)Coordinator USB: Through USB

(2)Coordinator Ethernet: Through Ethernet

(3)DI、AI、T&H、K-TYPE: Through RF With Coordinator

PAN ID

RF Channel



Modbus TCP
UDP
UART

Sample rate:

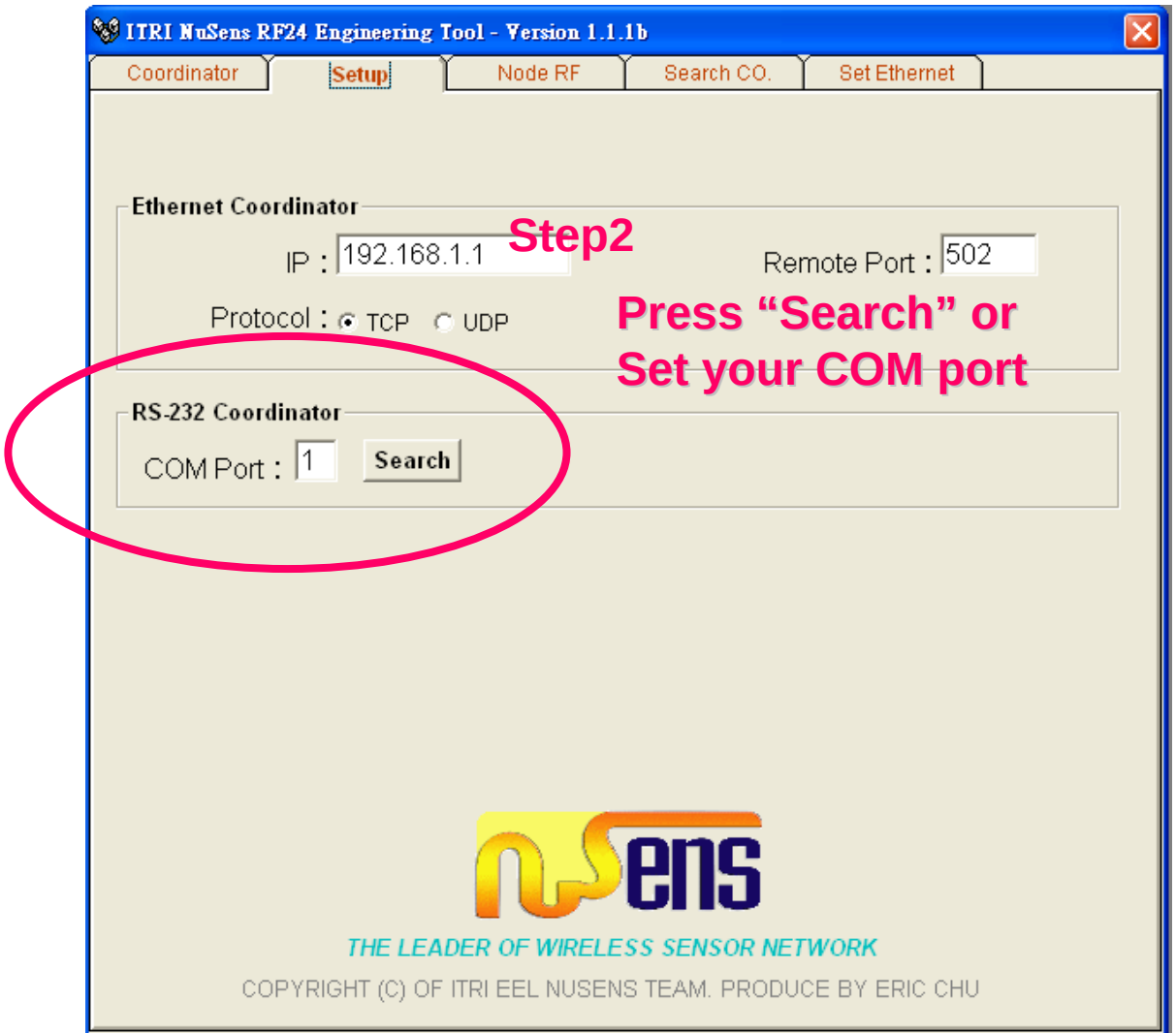
Node Setup Frequency

Need to Follow

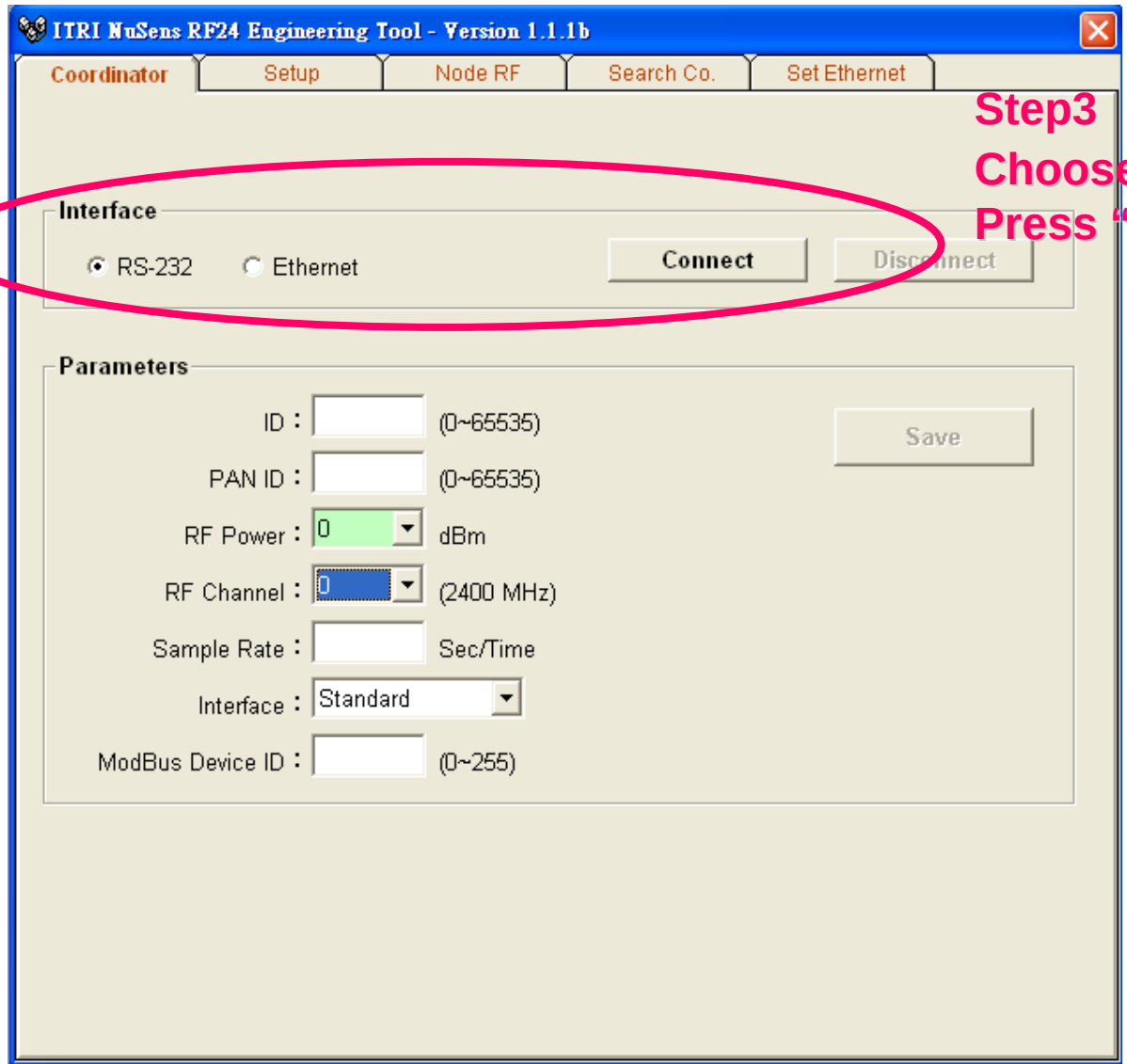
Coordinator

Product Setup -Coordinator USB(1)

Step1 Open ITRI NuSens RF24 Engineering tool

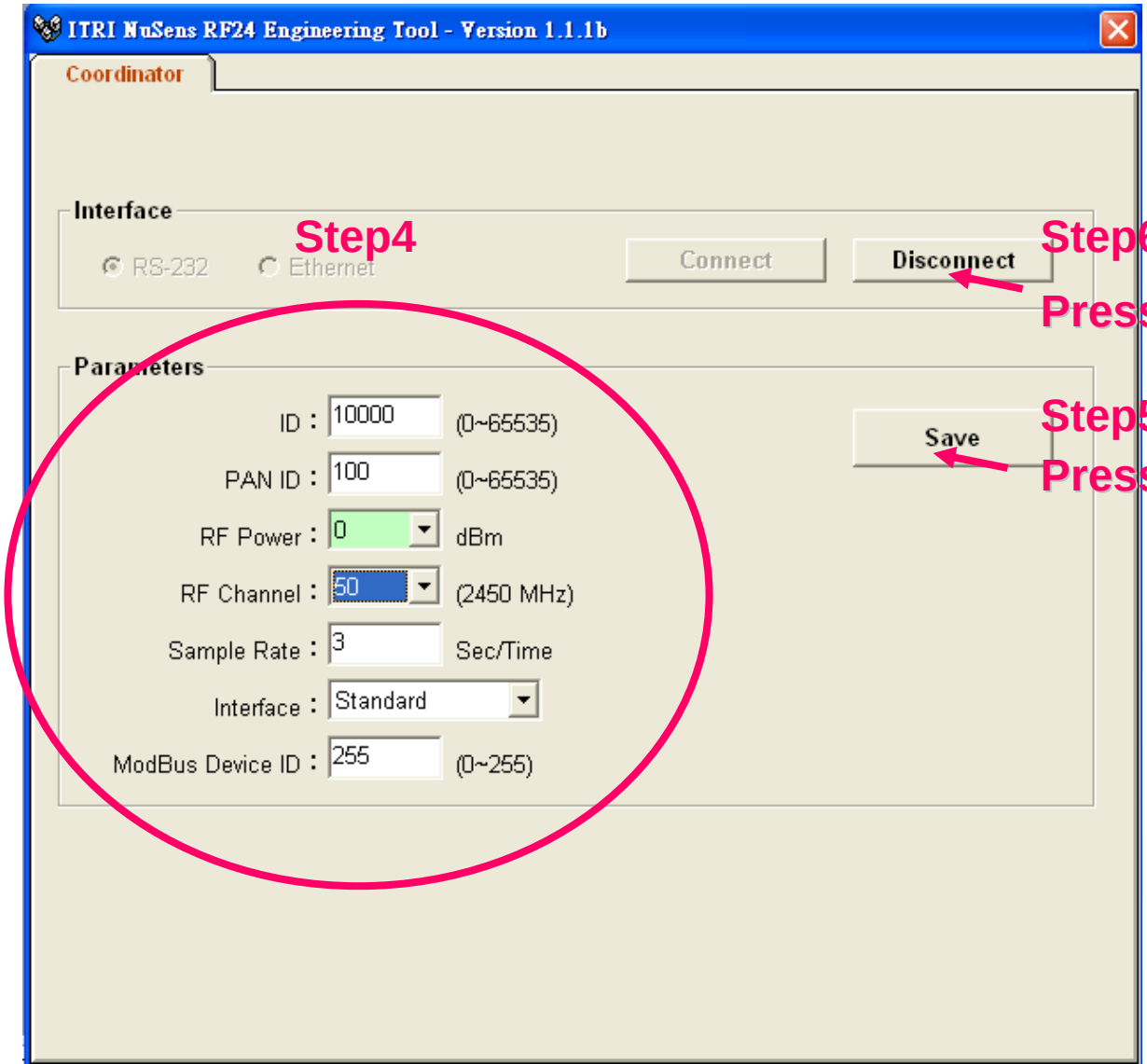


Product Setup -Coordinator USB(2)



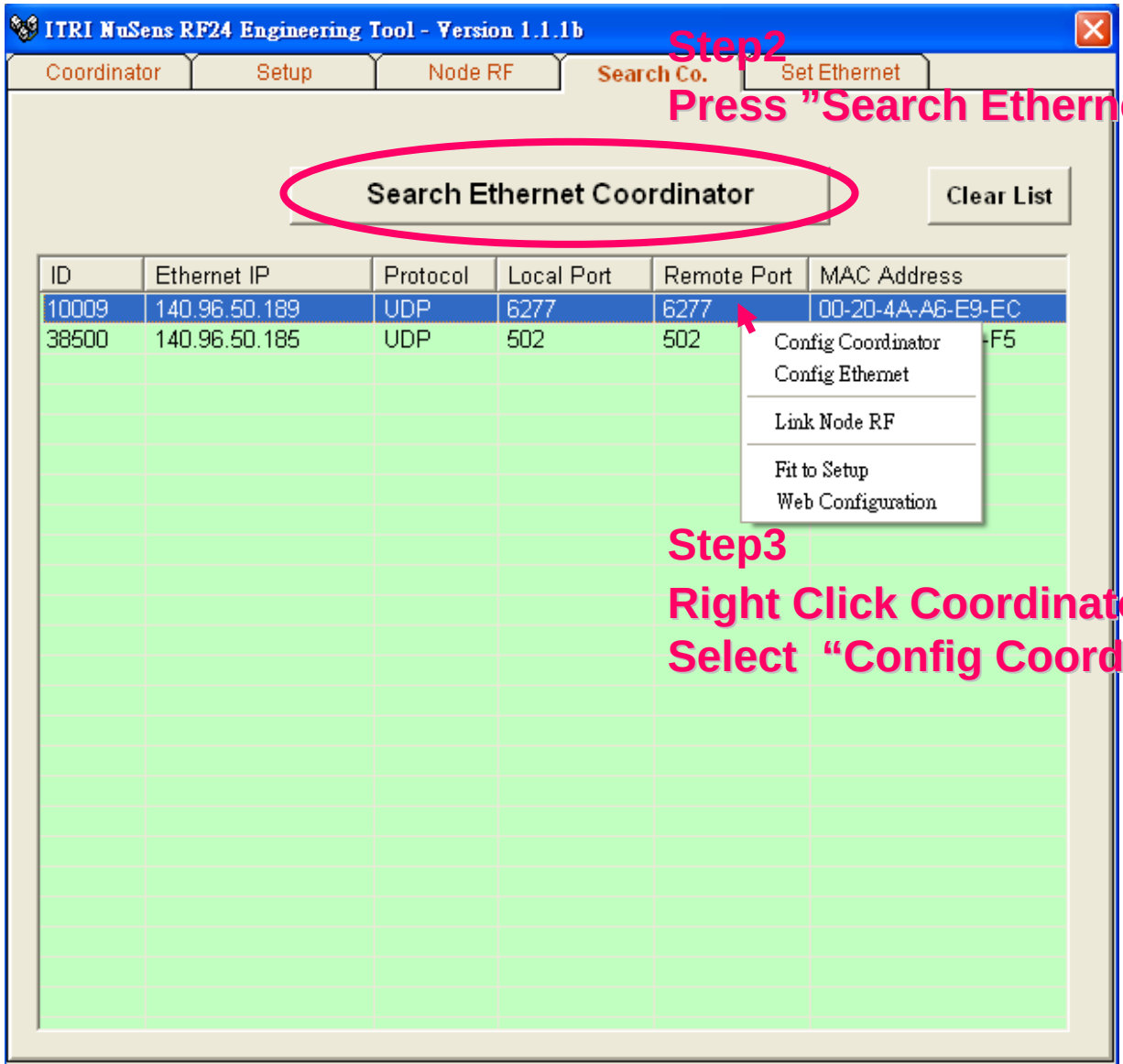
Step3
Choose "RS-232"
Press "Connect"

Product Setup -Coordinator USB(3)



Product Setup -Coordinator Ethernet(1)

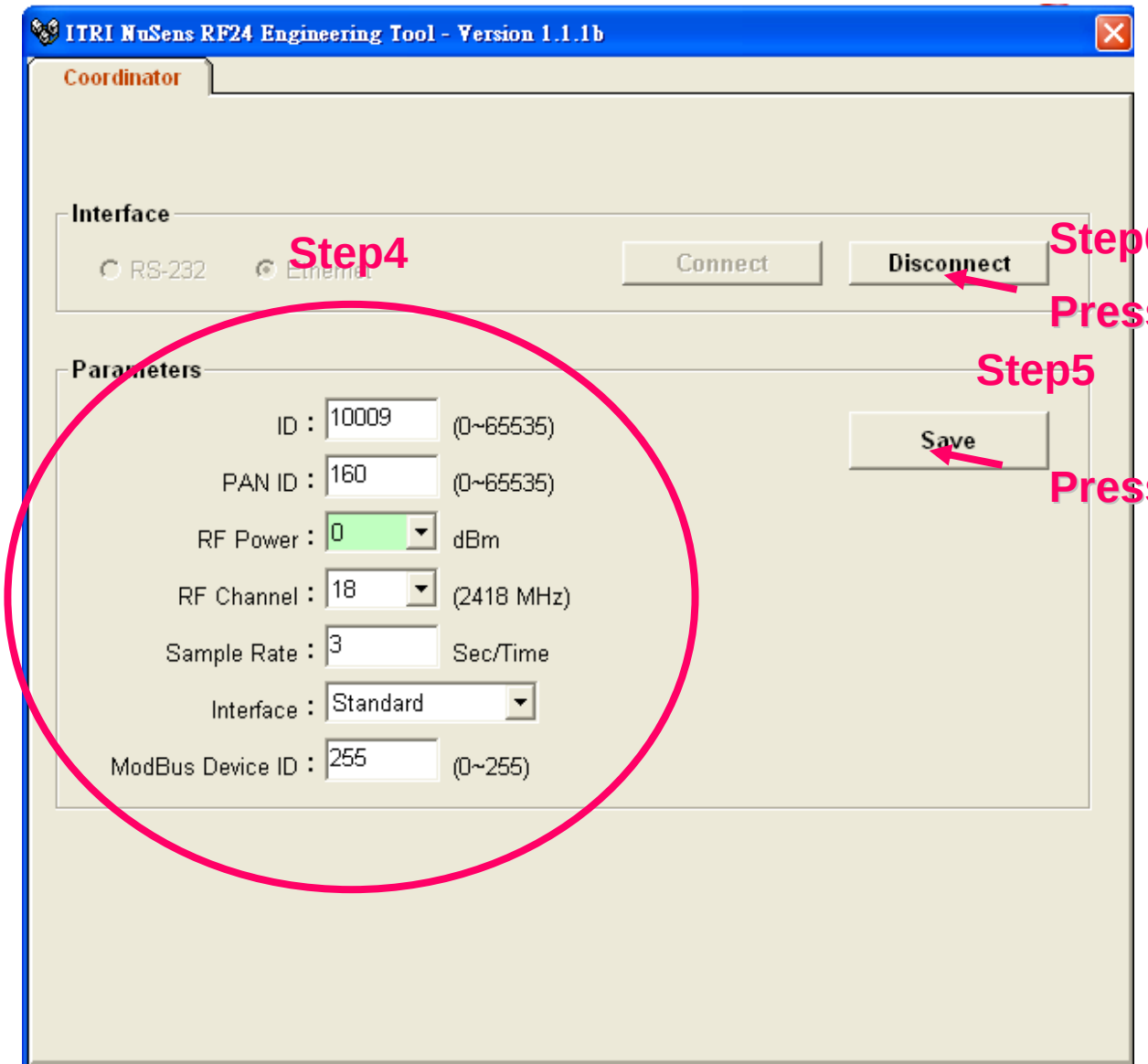
Step1 Open ITRI NuSens RF24 Engineering tool



Step2
Press "Search Ethernet Coordinator"

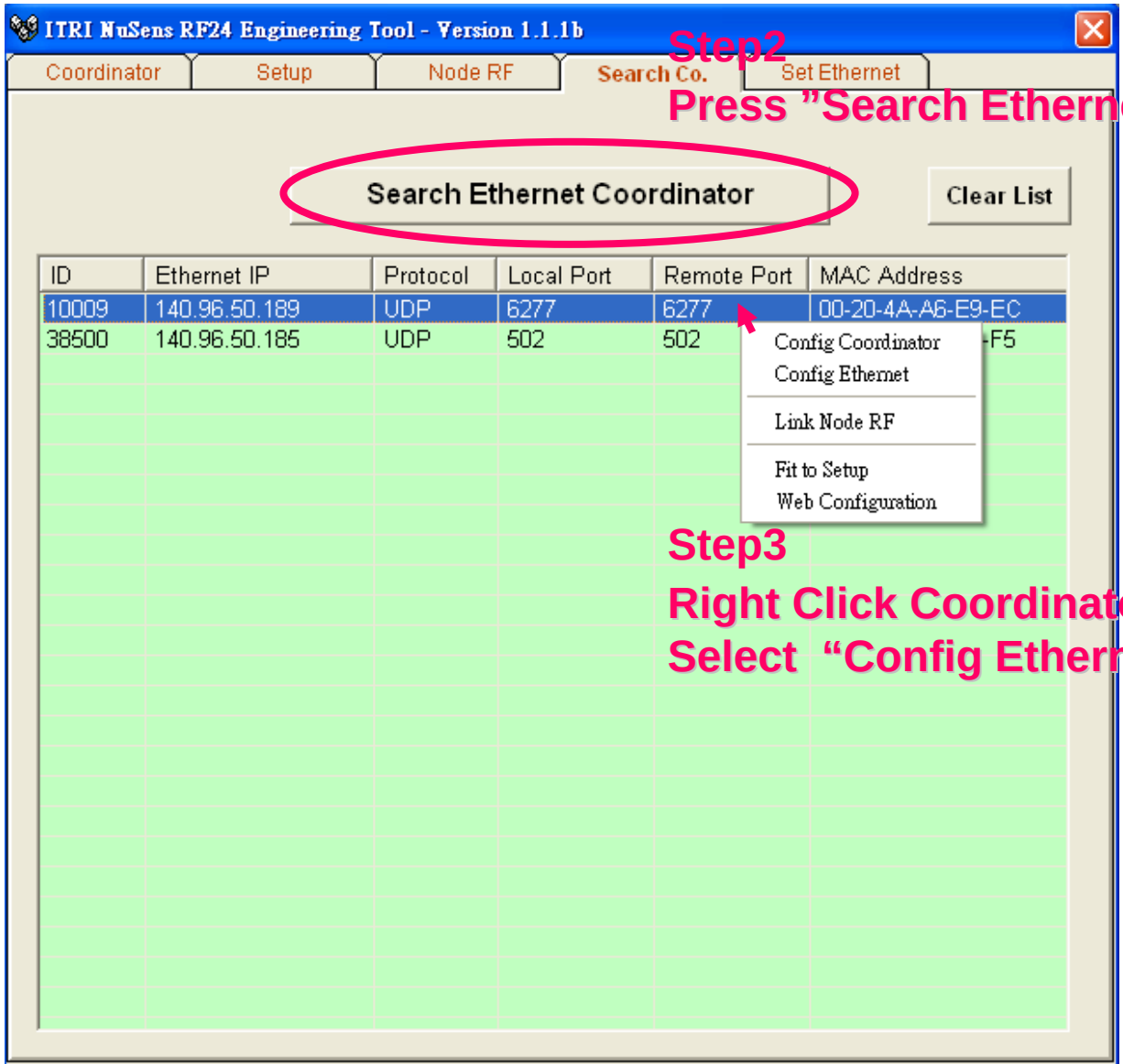
Step3
Right Click Coordinator
Select "Config Coordinator"

Product Setup -Coordinator Ethernet(2)



Product Setup -Coordinator Ethernet Network Parameter(1)

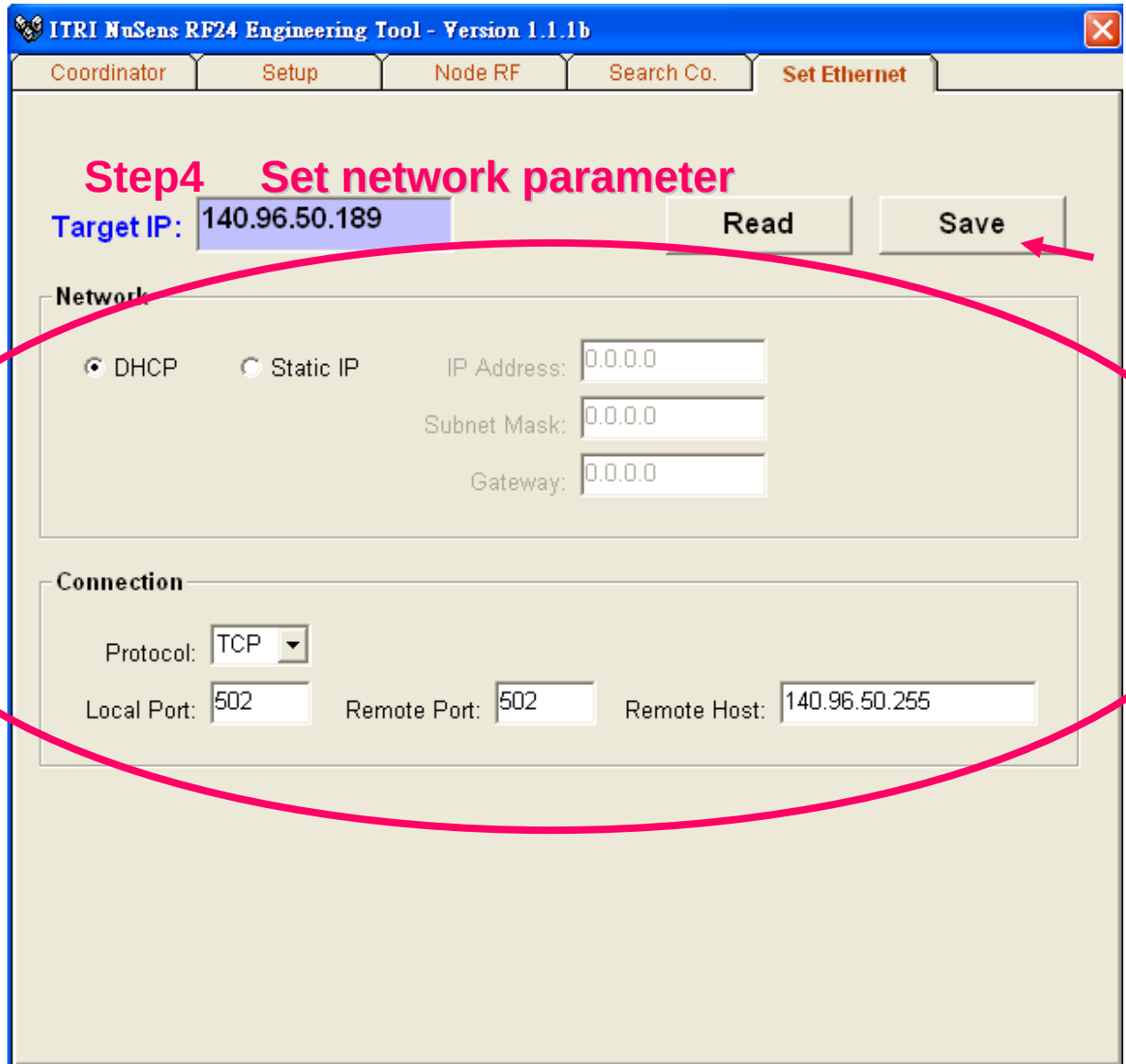
Step1 Open ITRI NuSens RF24 Engineering tool



Step2
Press "Search Ethernet Coordinator"

Step3
Right Click Coordinator
Select "Config Ethernet"

Product Setup -Coordinator Ethernet Network Parameter(2)



Step5
Press “Save”

Product Setup -DI、 AI、T&H、 K-TYPE(1)

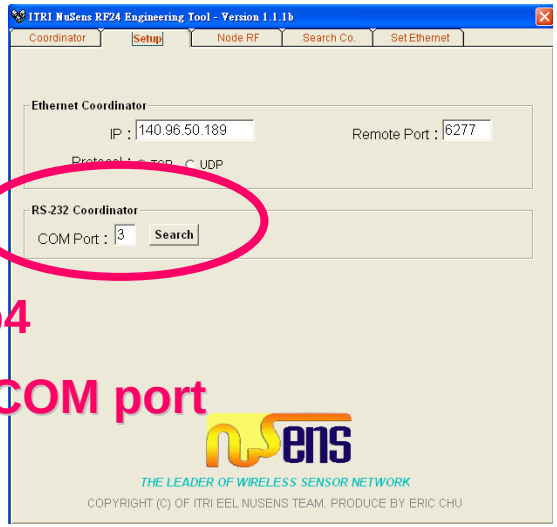
- Step1
  Link Coordinator on Computer
- Step2

1. T&H : Hold The Function Key to Switch on The Power，till Green LED “ON” . And Press The Function Key Again Until The Blue LED Light and Green LED Off , Get Into The Setup Mode.
2. DI 、 AI 、K-TYPE : Plug DC Power then Red and Green LED Will Flash In The Same time Within 5 Sec，And Hold The Function Key to Switch on The Power，till Green LED “ON” . And Press The Function Key Again Until The Blue LED Light and Green LED Off , Get Into The Setup Mode.

Product Setup -DI、 AI、 T&H、 K-TYPE(2)

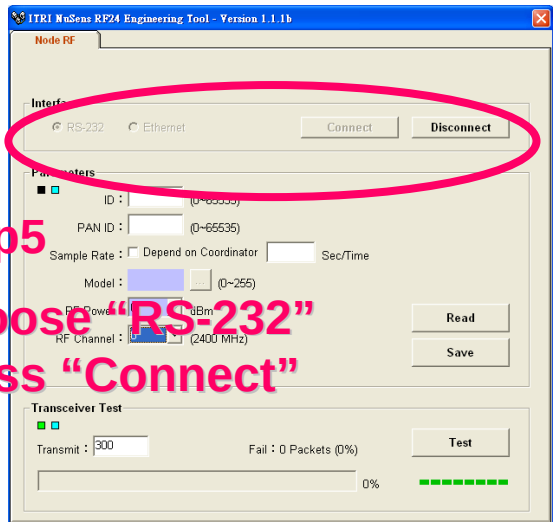
Step3 Open ITRI NuSens RF24 Engineering tool

If use Coordinator USB



Step4

Set COM port



Step5

Choose “RS-232”

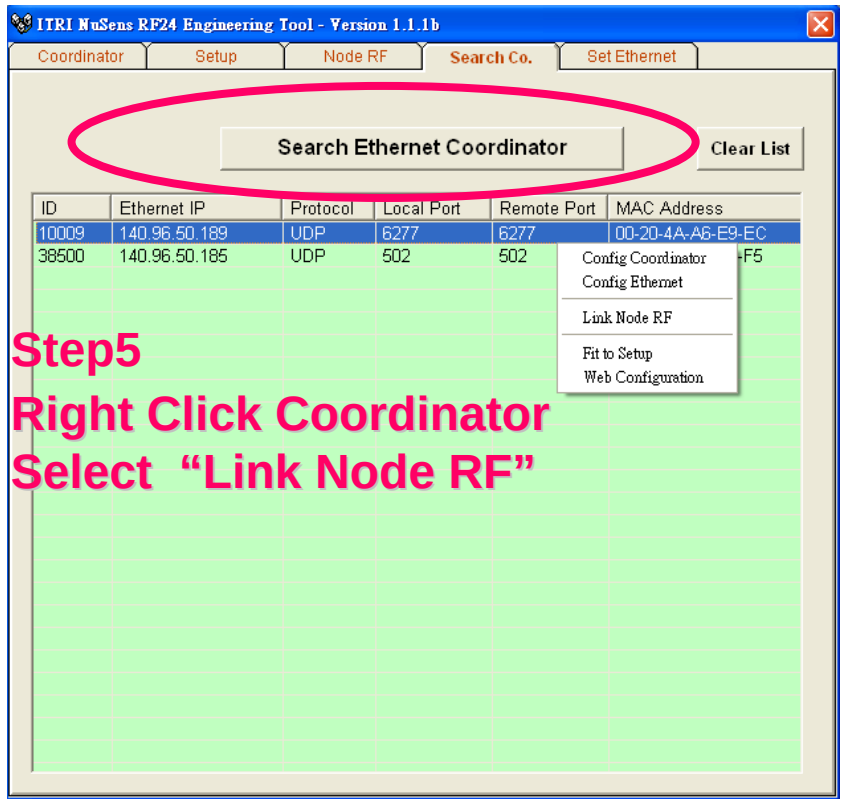
Press “Connect”

OR

If use Coordinator Ethernet

Step4

Press ”Search Ethernet Coordinator”

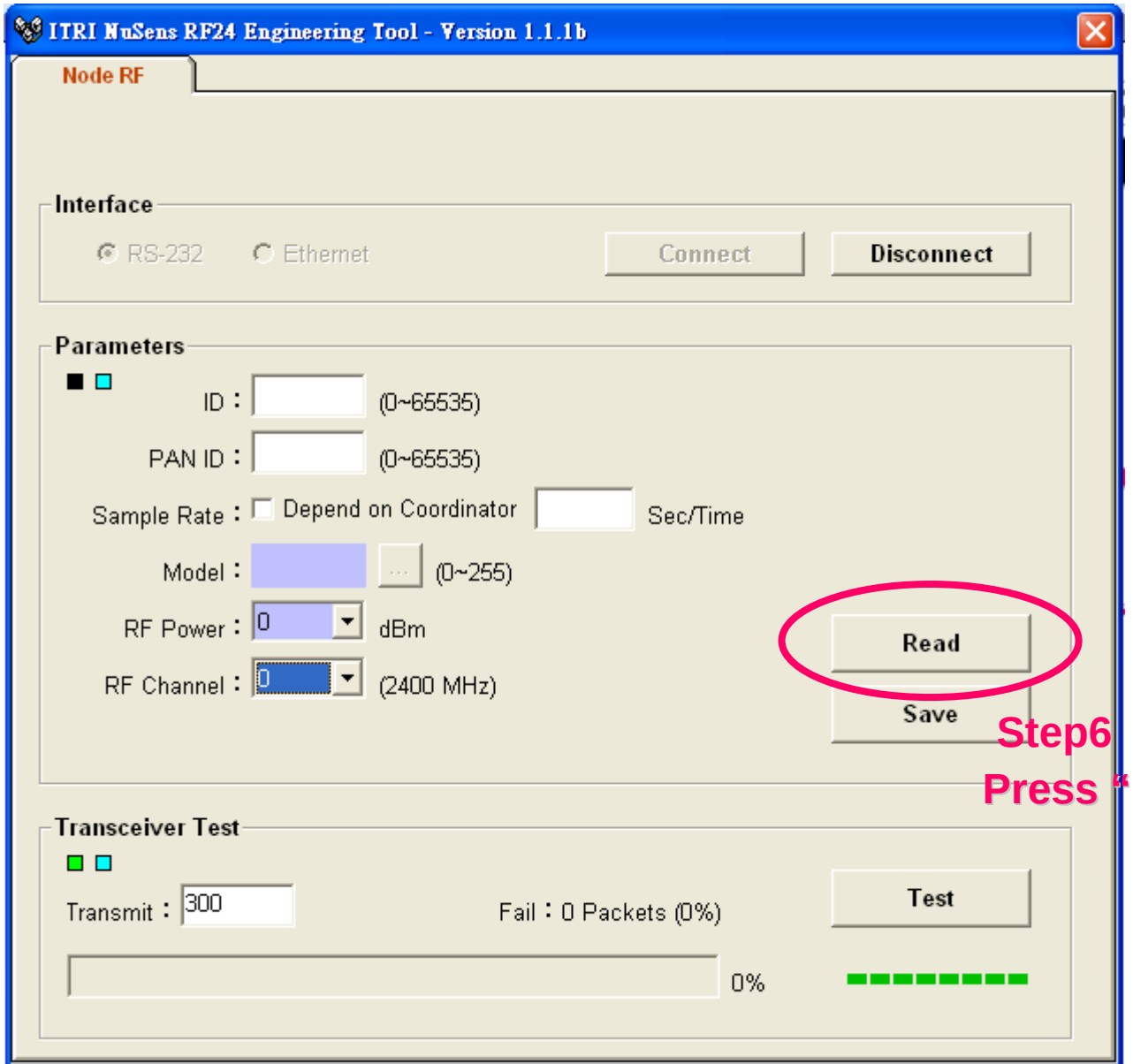


Step5

Right Click Coordinator

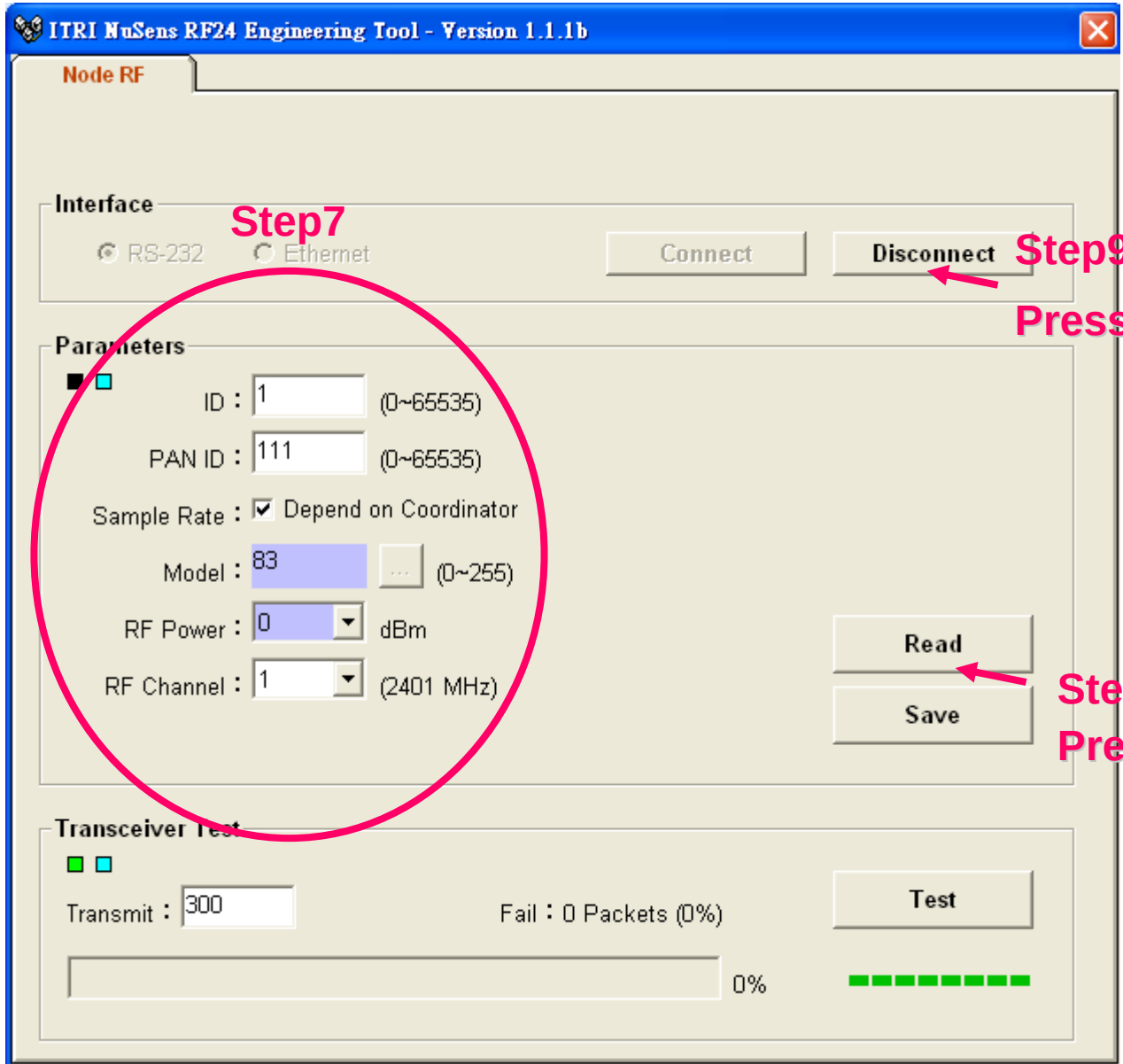
Select “Link Node RF”

Product Setup -DI、 AI、T&H 、 K-TYPE(3)



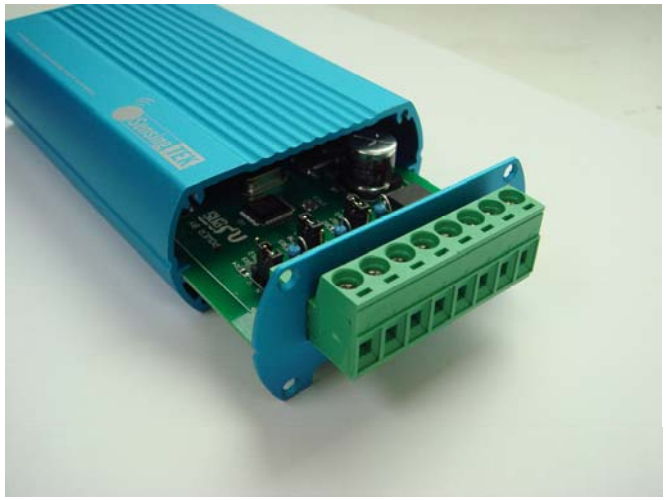
Step6
Press "Read"

Product Setup -DI、 AI、T&H 、 K-TYPE(5)

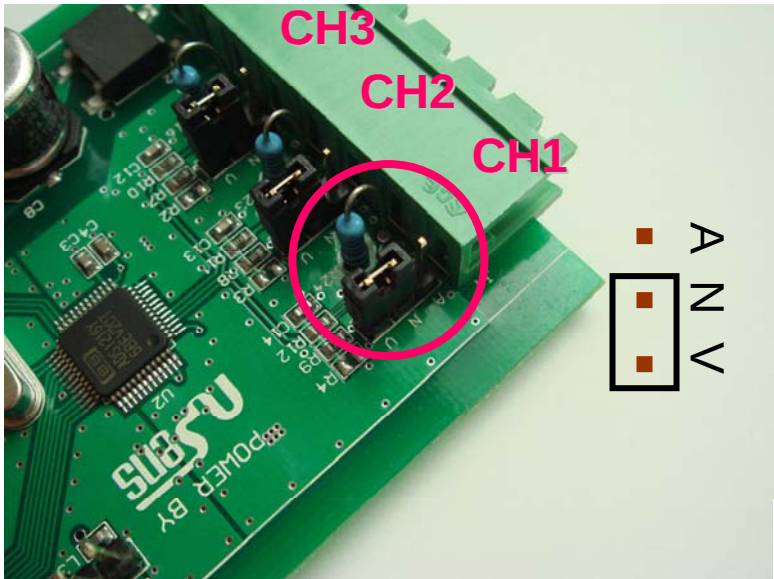


Product Setup –AI Detect Range And Jumper Setup

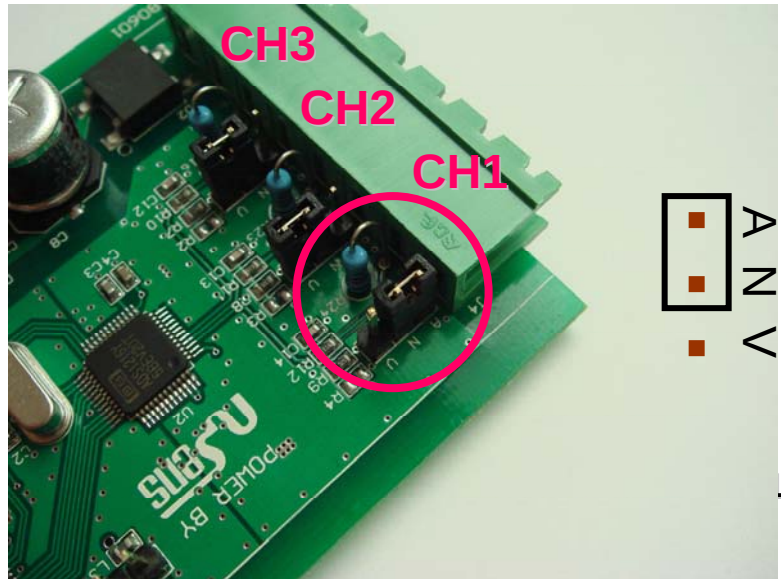
Step1 Open The Case



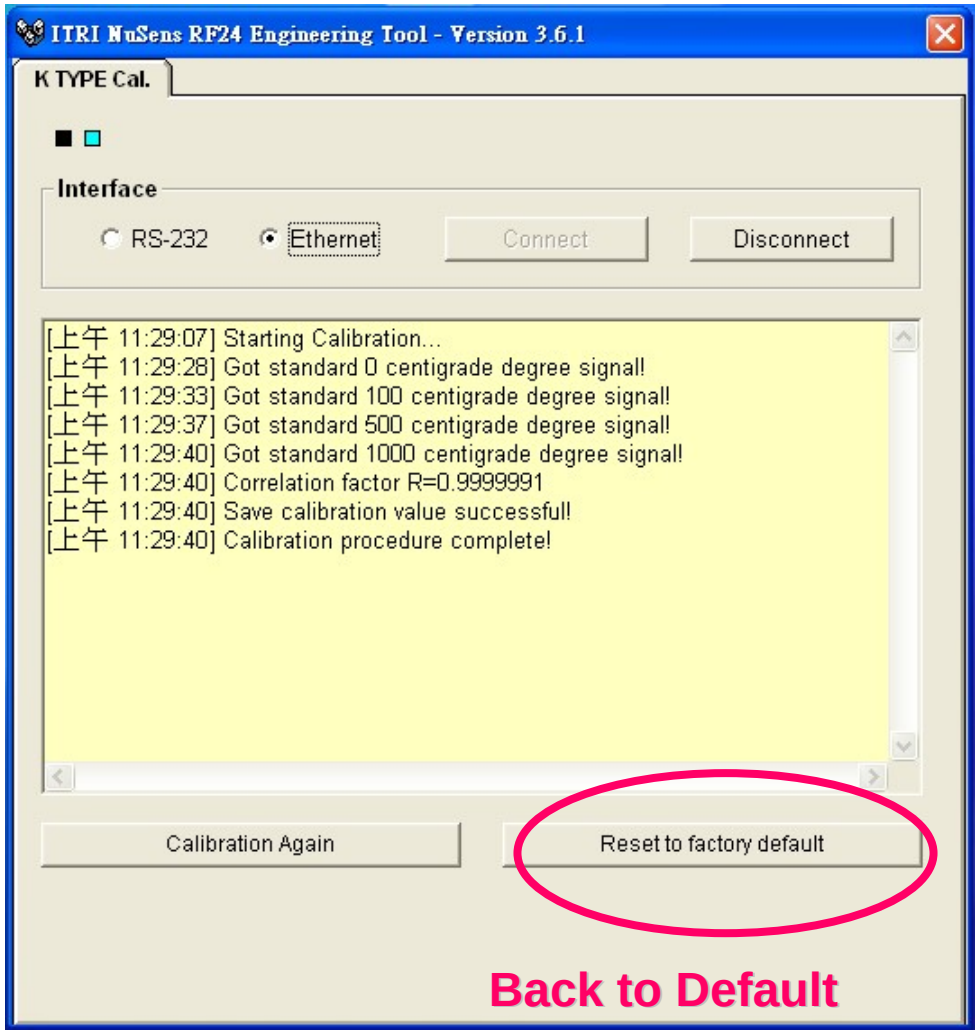
Step2 0~1V,0~5V,0~10V Jumper Setup



0-20mA,4-20mA Jumper Setup



Product Setup -K TYPE Calibration



- **The Accuracy is ±3˚C Before K type Sensor Calibration , After Calibrate Process can be Accuracy ±1˚C.**
- **Press Connect Bottom And Follow System Instruction.**
- **Base on Four Standard Temperature to Calibrate Node . System Will Display Relate Value (Before and After Calibration).**
- **The Calibration Parameter Will be Save Into The Node Automatically , Meanwhile Node Output Value Will Follow New Parameter.**

Setup System

Software:

(1)Coordinator Setup : NuSens Engineering tool (RF Parameter and Network Parameter Setup)

(2)DI、AI、T&H、K-TYPE Setup : NuSens Engineering tool

Tool or Interface:

(1)Coordinator USB: Through USB

(2)Coordinator Ethernet : Through Ethernet

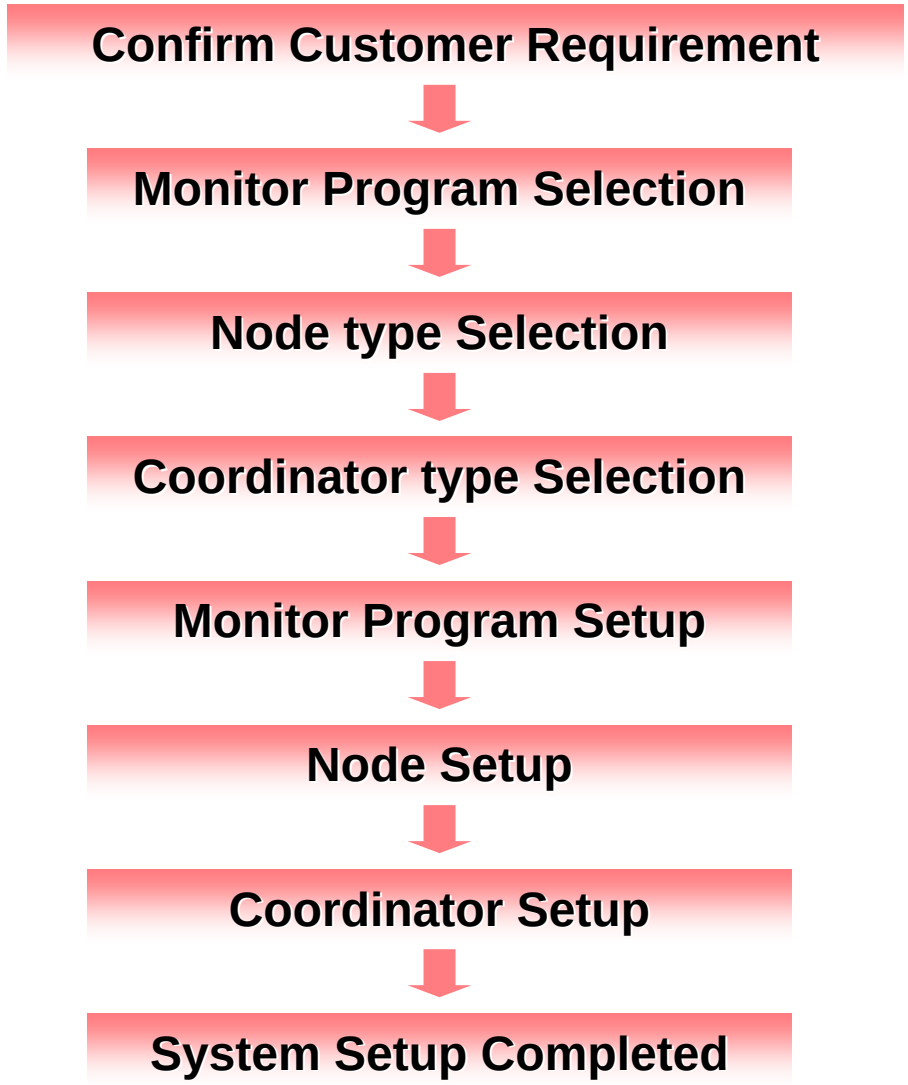
(3)DI、AI、T&H、K-TYPE : Through RF with Coordinator

Backend Software :

(1)NuSens Server (UDP,UART)

(2) Another Software (Modbus TCP)

Setup System Flow

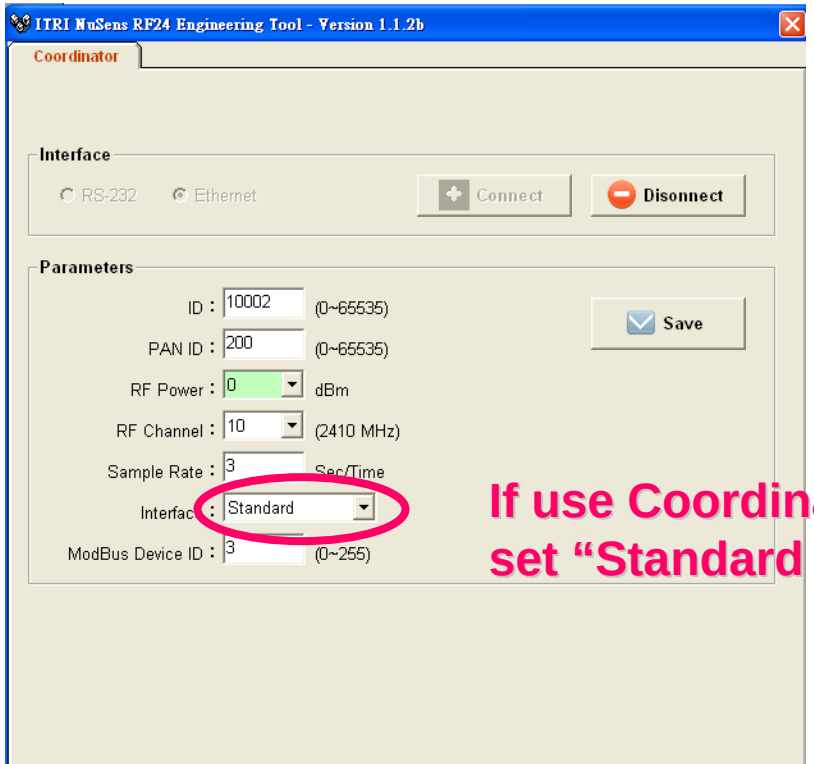


Setup System - NuSens Server UDP or UART(1)

- **Step1**

(1)Coordinator RS-232:PCNeed Install USB Driver" CP210xVCPInstaller.exe" ，And use NuSens Engineering tool Setup Coordinator Parameter And IP

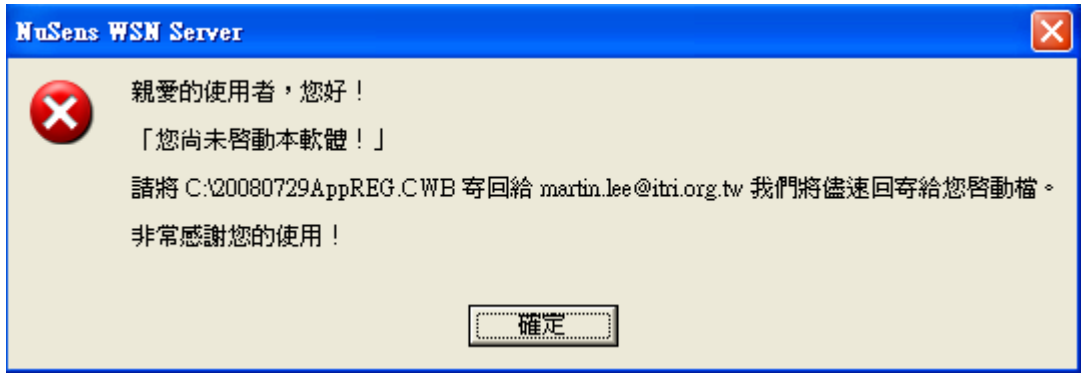
(2)Coordinator UDP: Use NuSens Engineering tool Setup Coordinator Parameter And IP



If use Coordinator UDP then set "Standard UDP"

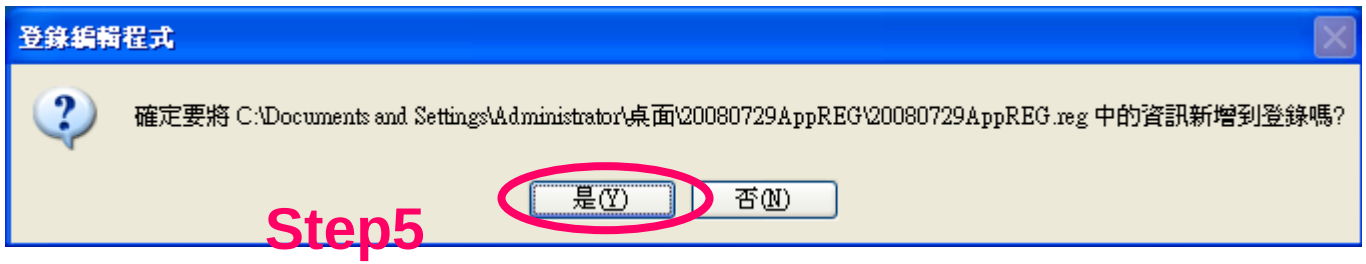
Setup System - NuSens Server UDP or UART(2)

Step2 Install NuSens WSN Server



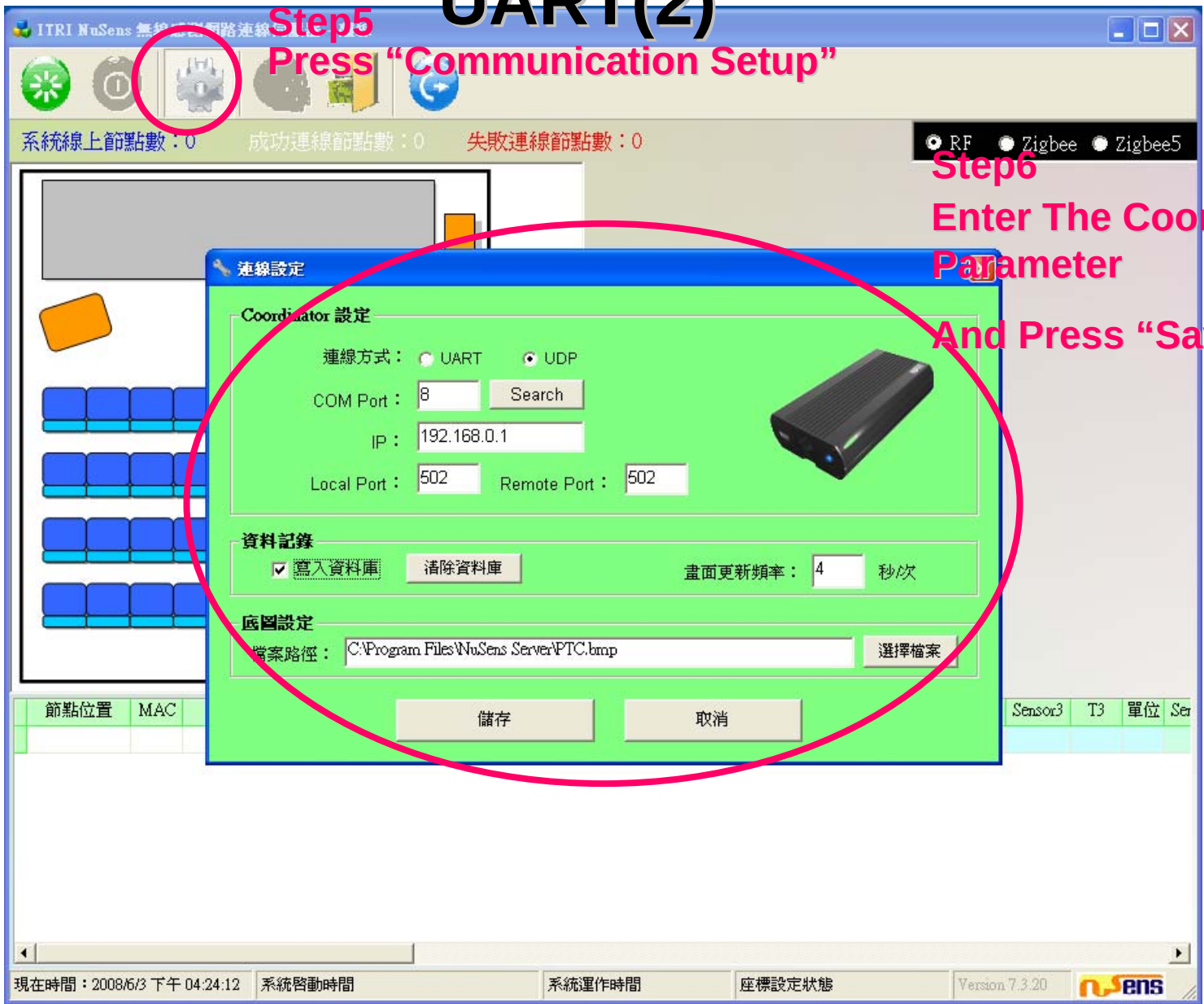
Step3 Send The200XXXXXAppREG.CWB to martin.lee@itri.org.tw

Step4 Execute 200XXXXXAppREG.reg



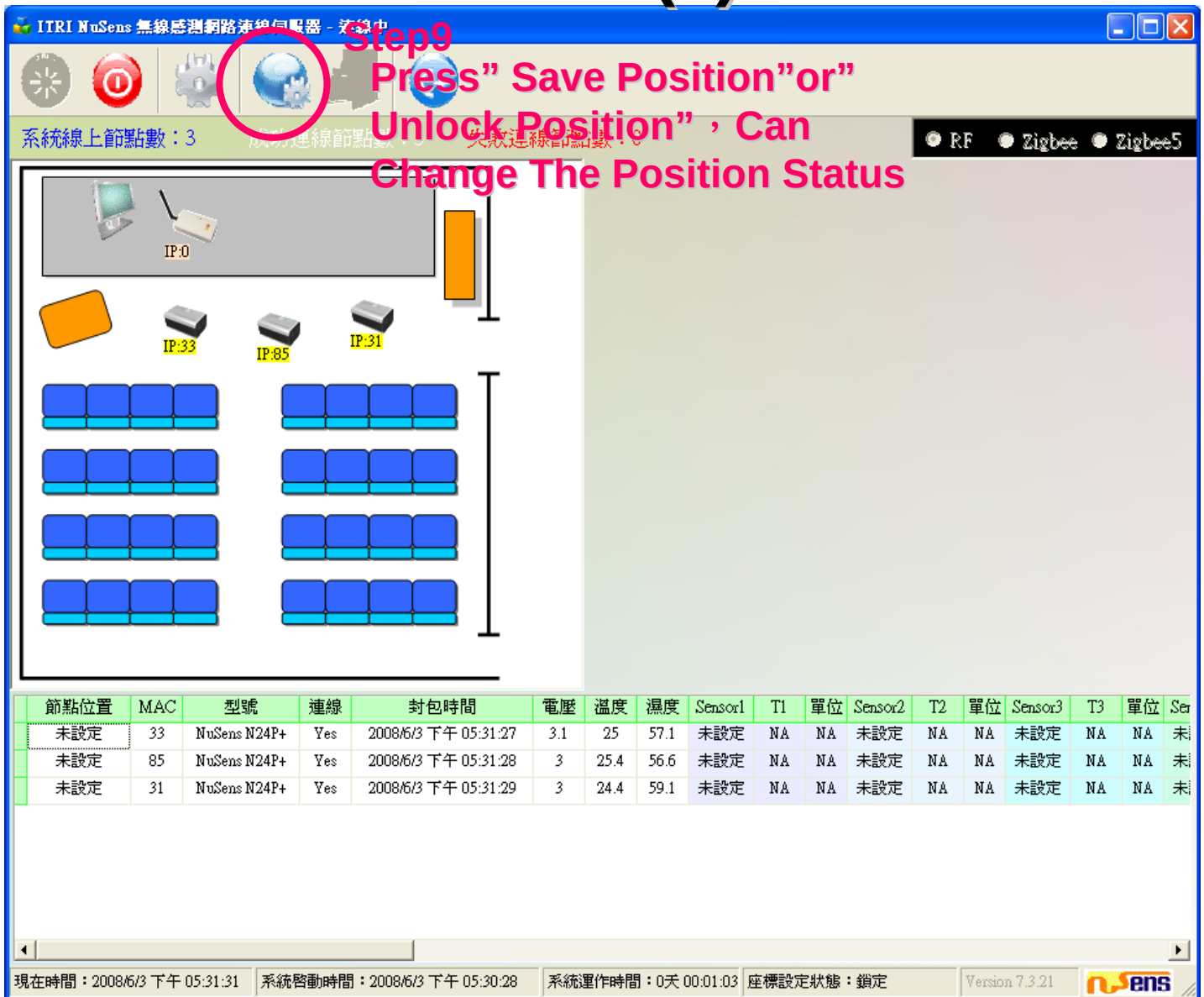
Step5

Setup System -NuSens Server UDP or UART(2)



Setup System - NuSens Server UDP or UART(3)

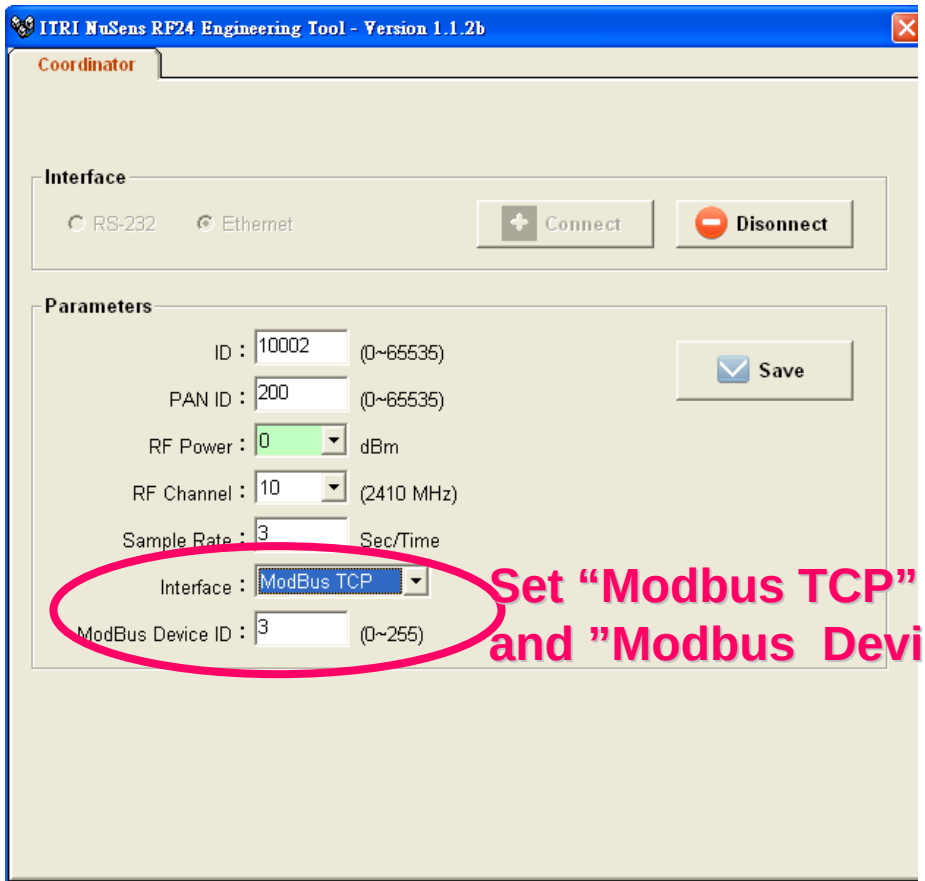
Setup System - NuSens Server UDP or UART(4)



Setup System - Modbus

- **Step1**

Coordinator TCP:Use NuSens Engineering tool Setup Coordinator Parameter And IP



FCC ID: WMX01WISENSING

FCC Compliance and Advisory Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, according to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

1.Reorient the receiving antenna.

2.Increase the separation between the equipment and receiver.

3.Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.

4.Consult the dealer or an experienced radio/TV technician for help.

Any special accessories needed for compliance must be specified in the instruction manual.

Warning: A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment.

CAUSION: Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.