EKI-633x & EKI-136x-USDG Setup Example

Revision Date	Revision	Description	Author
April/2018	V1.0	Initial release	ICG AE Jacky.Lin

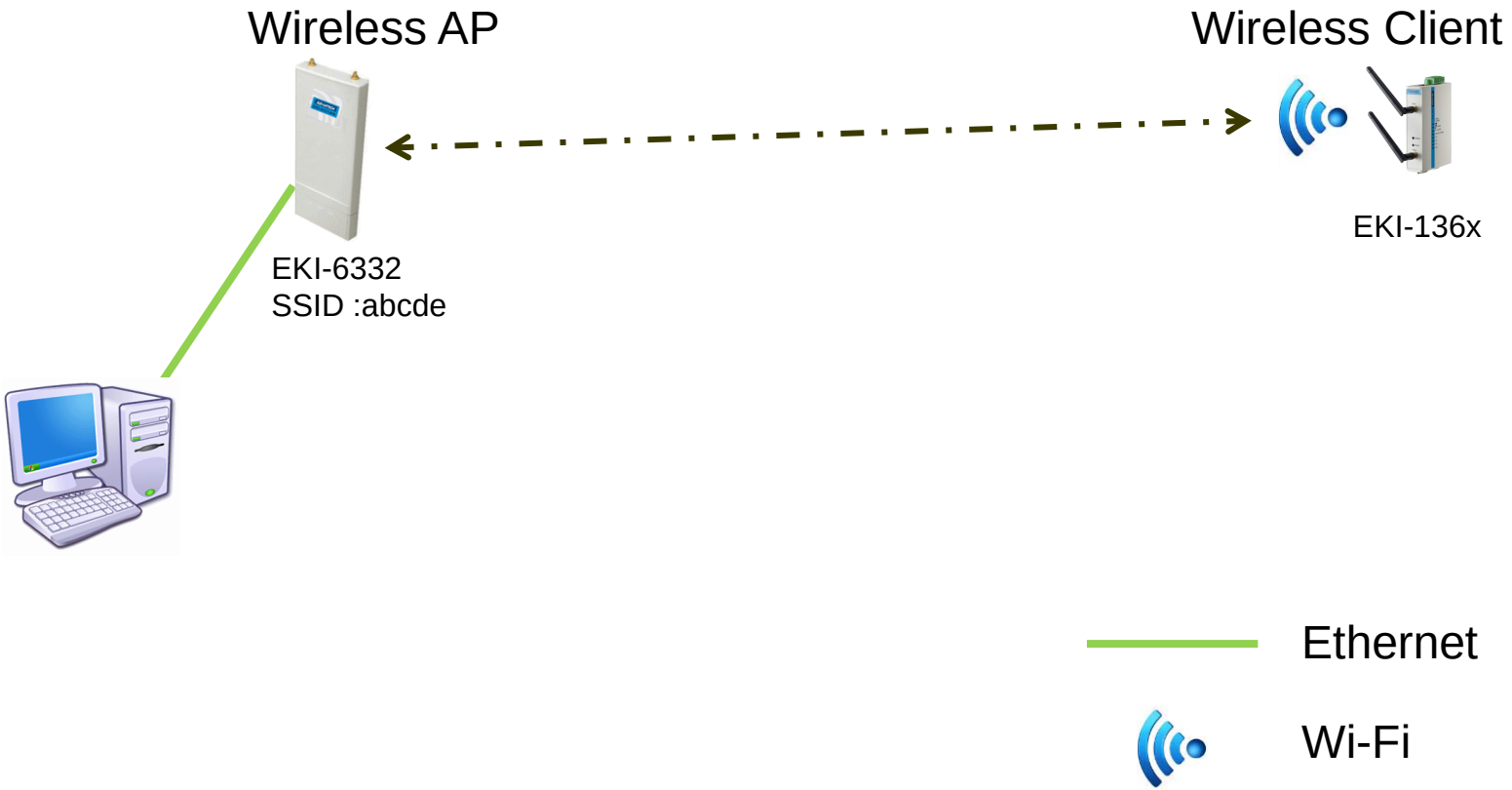
Abstract

- **Part1 :This SOP explains how to configure the EKI-6332 & EKI-136x-AE to build up the wireless connection**
- **Part 2: This SOP also shows how to set the USDG Client/Server mode on EKI-136x-AE for collecting data from the SCADA PC .**
- **Related products:**

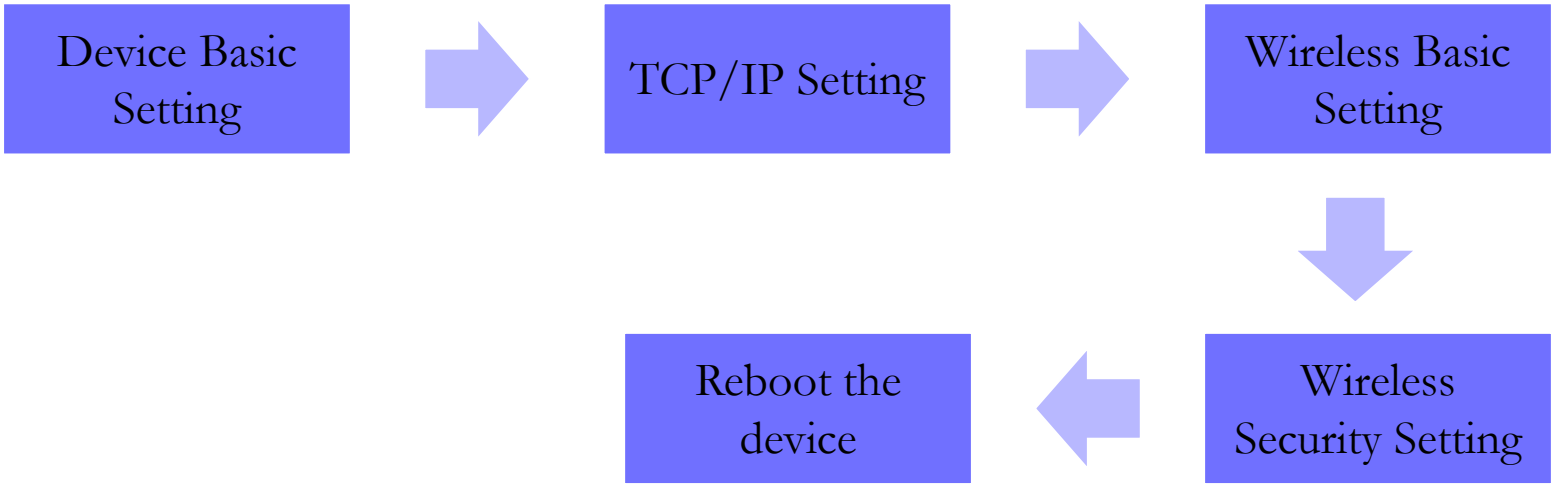
  EKI-6332, EKI-136x-AE
- **Requirement:** EKI-6332, EKI-136x-AE, TestView tool (Third party tool)

Wi-Fi connection Setup Between EKI-6332 & EKI-136x-AE

EKI-6332GN --- EKI-136x wireless connection setting Topology

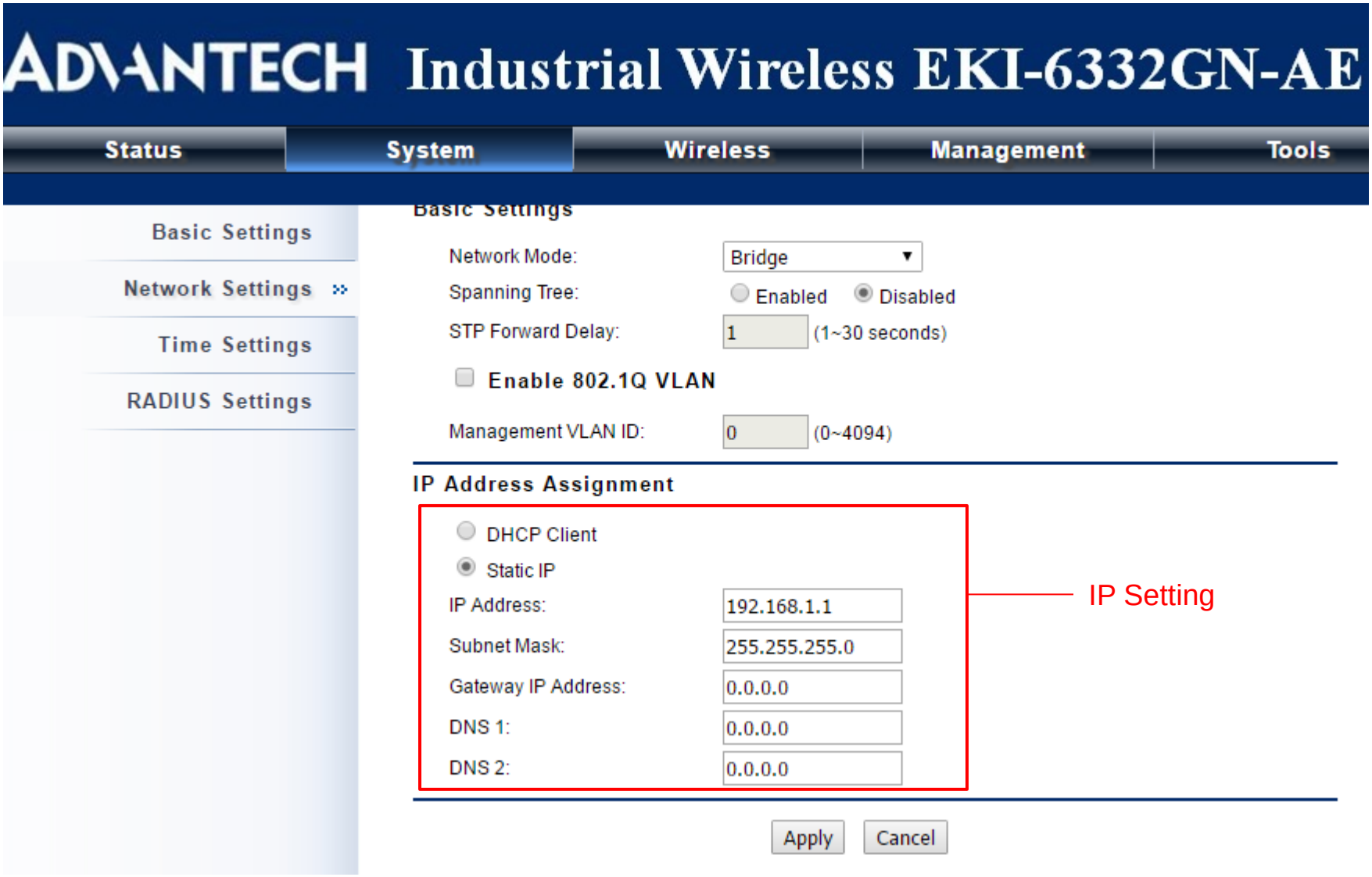


EKI-6332GN Configuration Flow chart

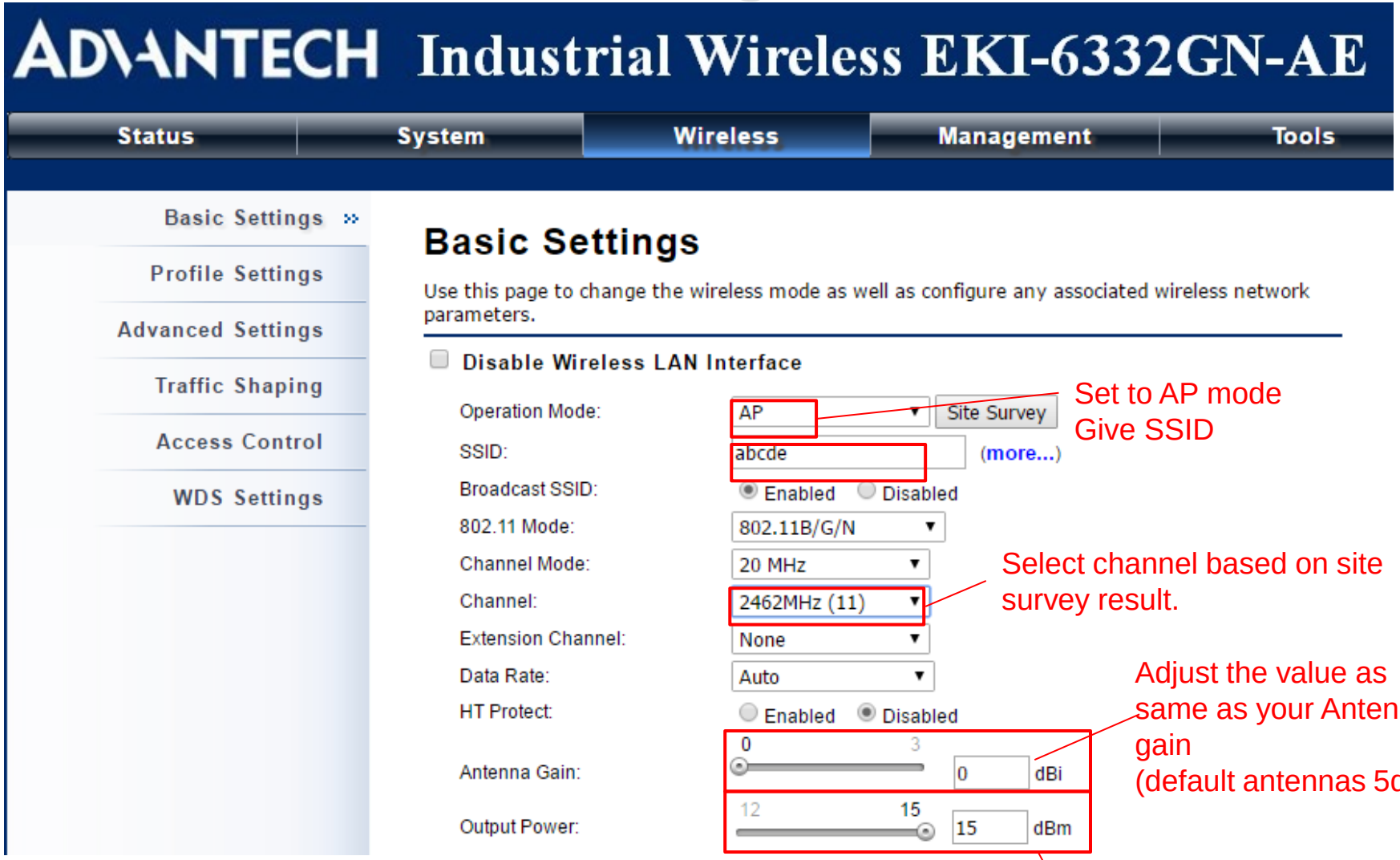


Device Basic Setting

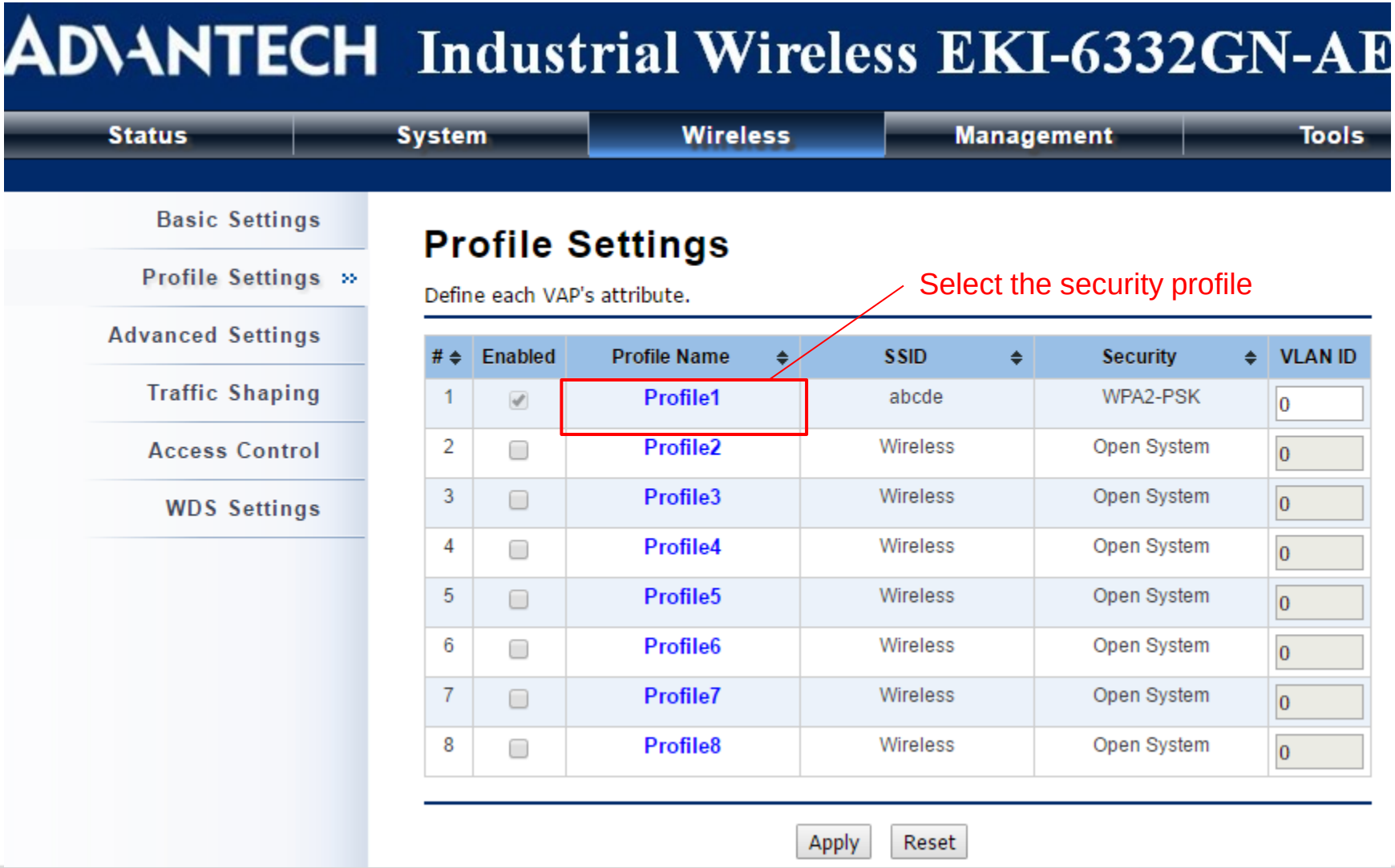
TCP/IP Setting



Wireless Basic Setting



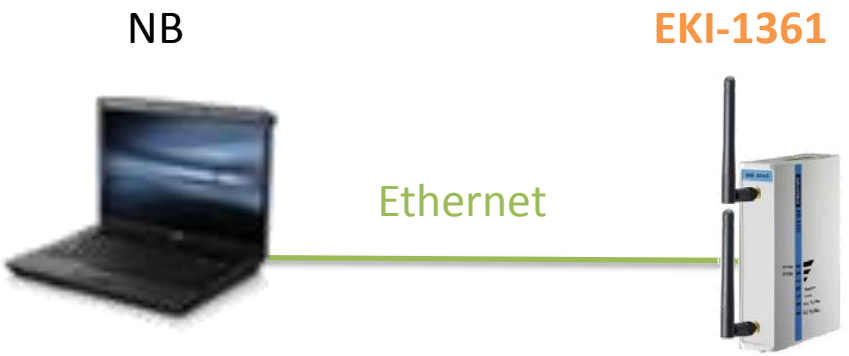
Wireless Basic Setting



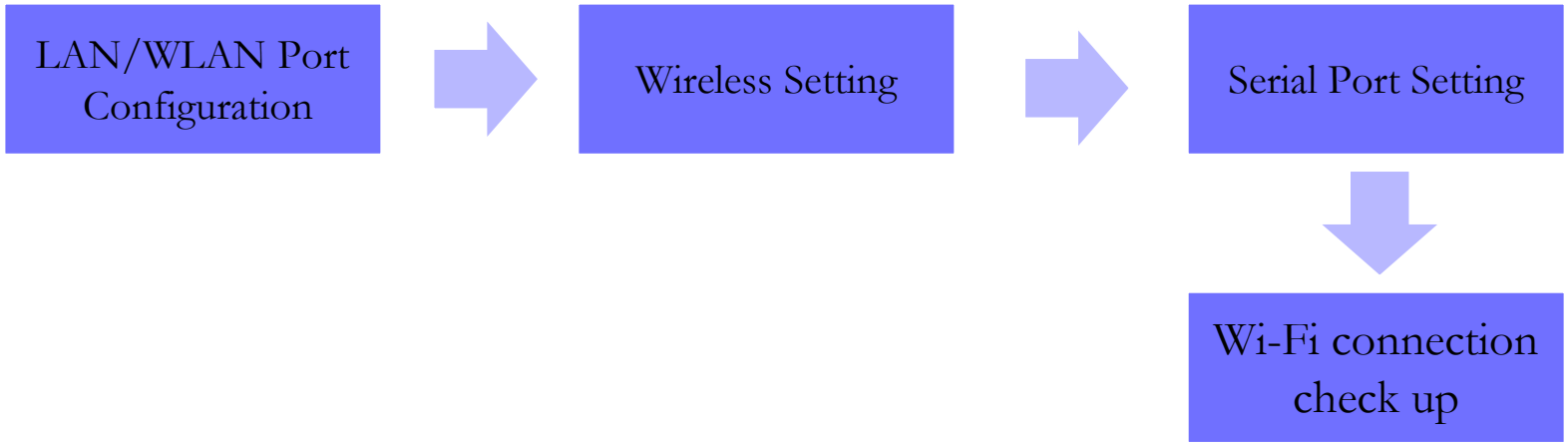
WiFi Security Setting

Reboot the Device

EKI-1361 Setting flow chart

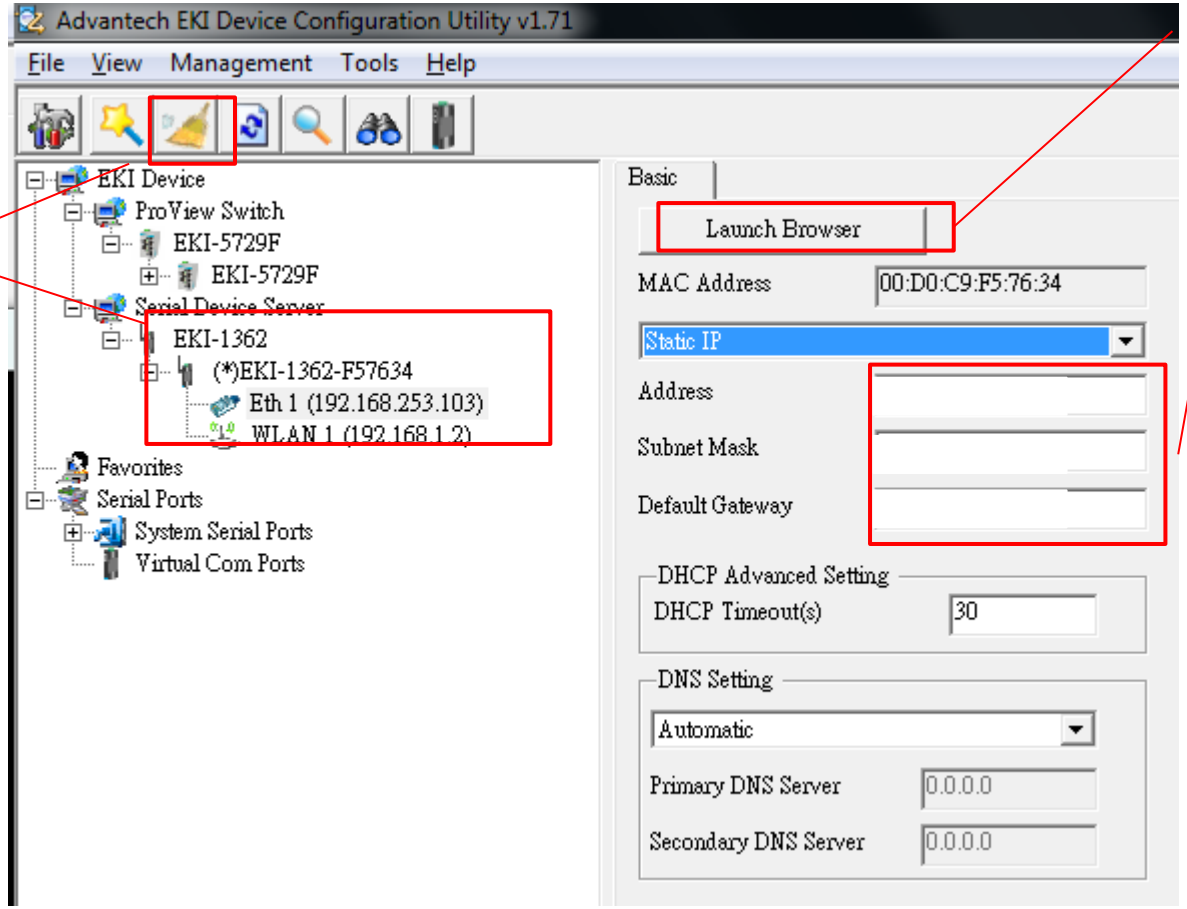


Step 1 : Connect the EKI-1361 via Ethernet cable
Step 2 : follow the flow chart to set up EKI-1361 step by step.



LAN port configuration

1.EKI Utility will able to scan the EKI-136x

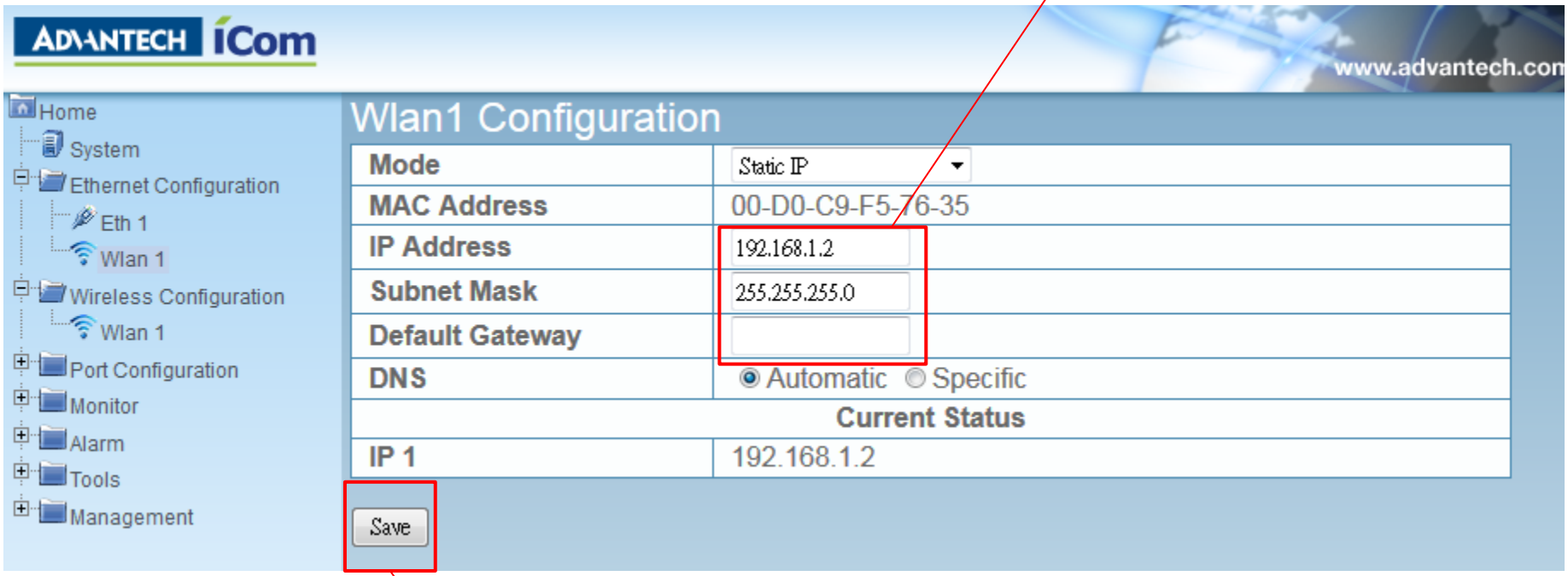


3.Click on Launch browser after “reboot”. To Enter port configuration

2.Config LAN IP to be the same subnet as the PC.

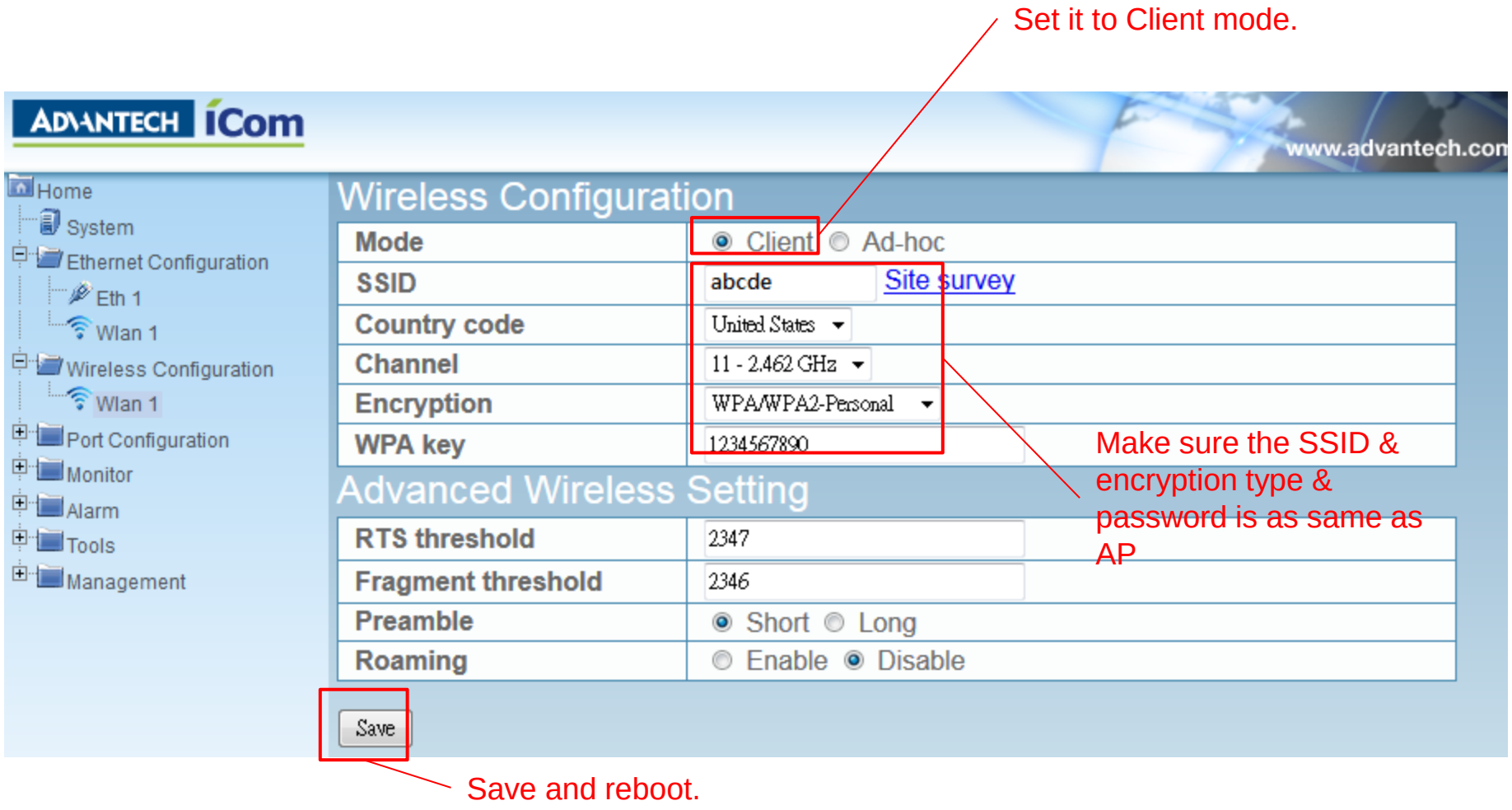
Wireless LAN (WLAN) Configuration

Set static IP for the WLAN interface



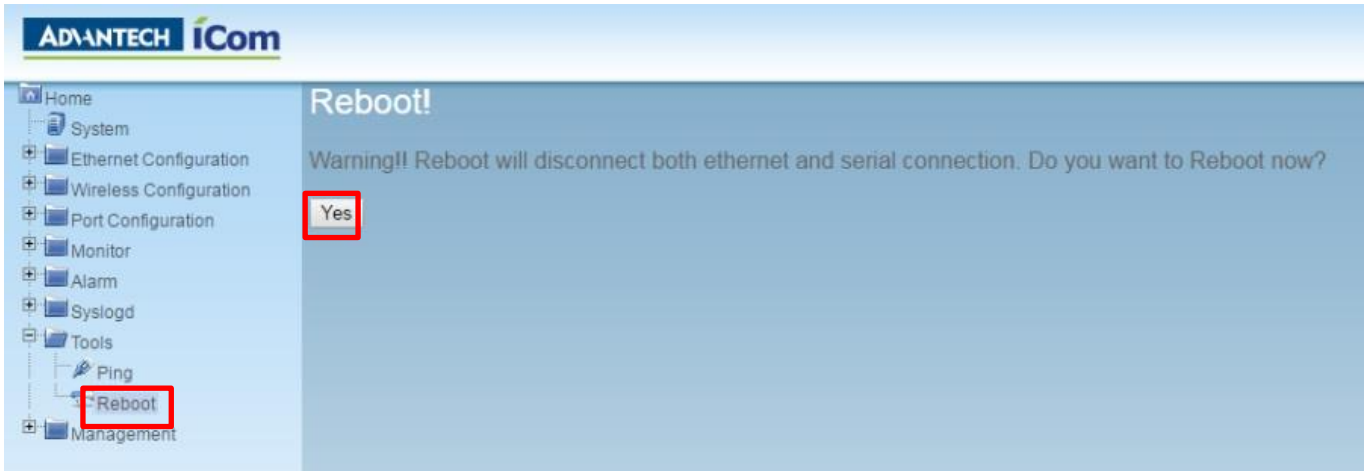
Click save on every config change,
Note: config will only be activated after device reboot

Wireless basic setting

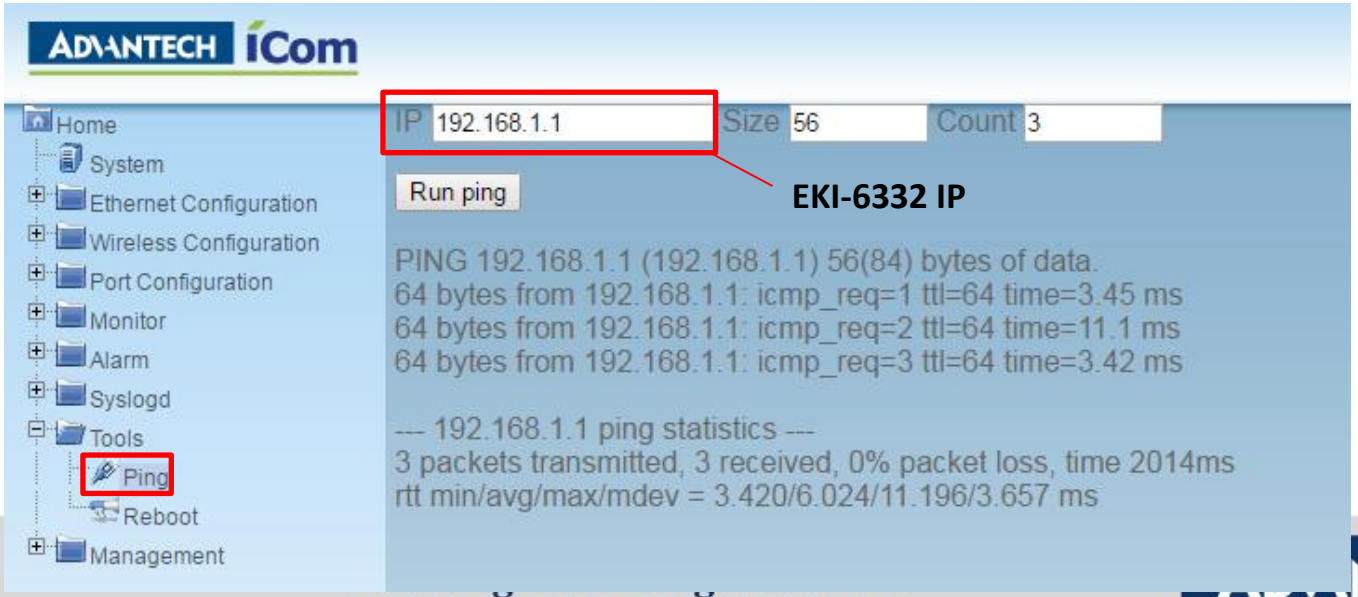


Reboot and Run the ping test

Step 1 :Reboot device after all setting done



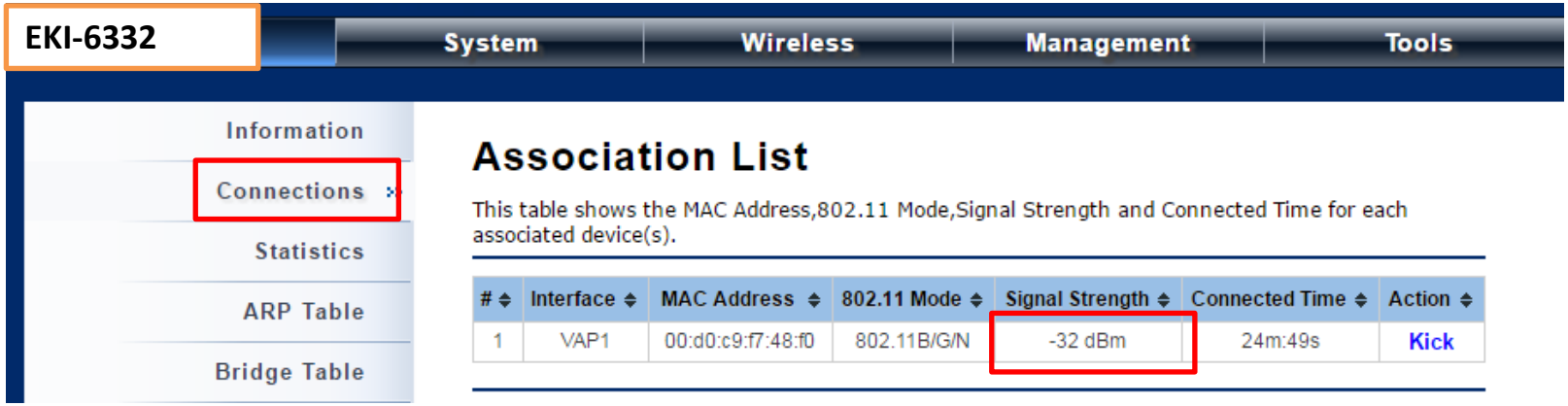
Step 2 : ping EKI-6332 to make sure the wireless connection is established



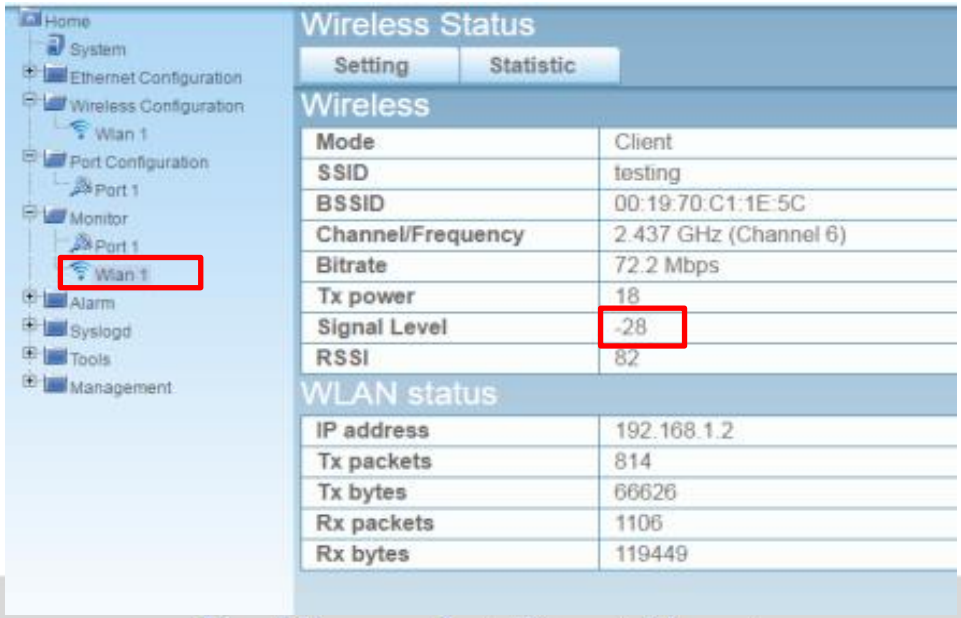
Wi-Fi connection check up

You may also check the Wi-Fi signal for AP/client on Web GUI

EKI-6332

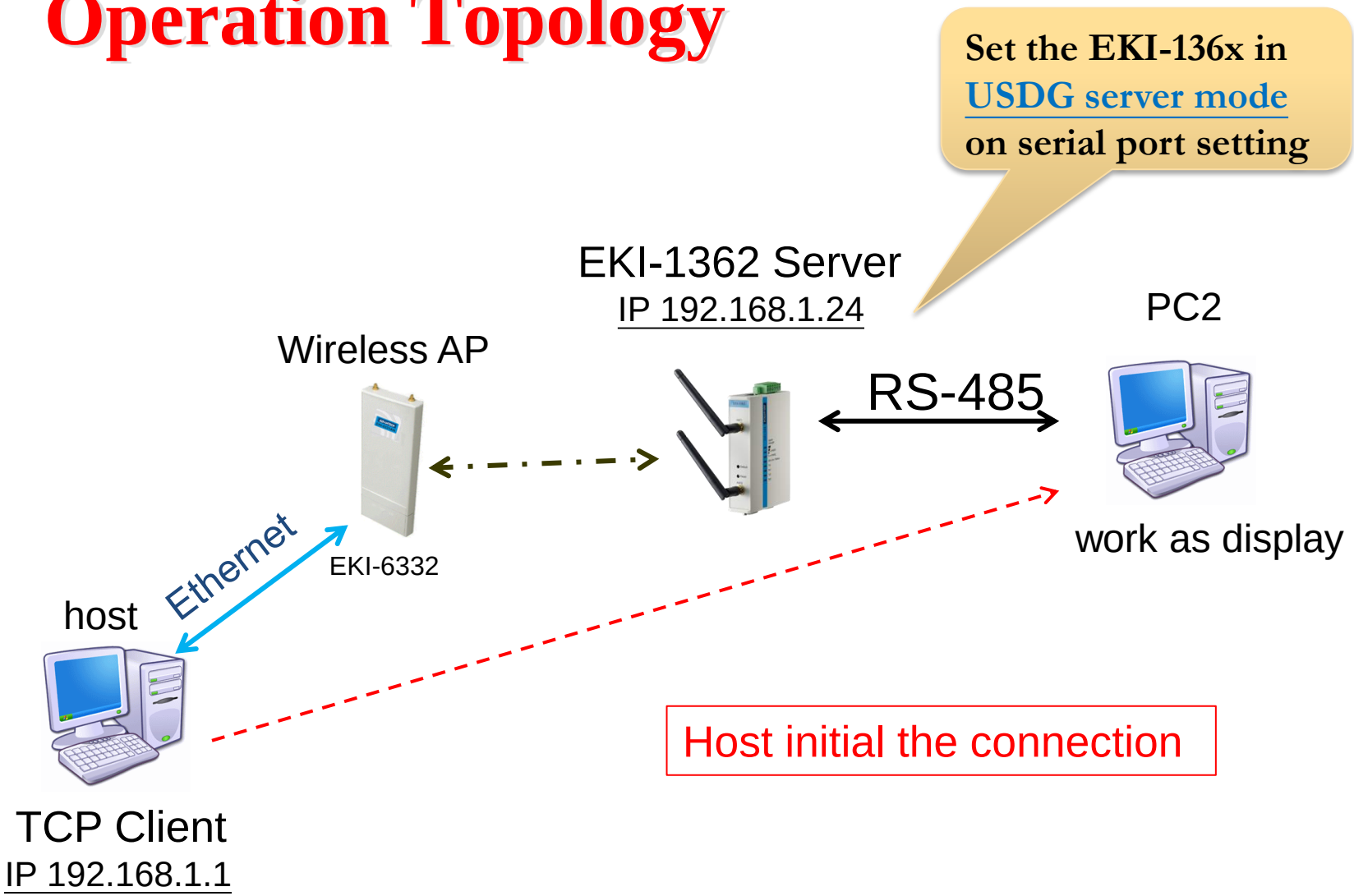


EKI-1361

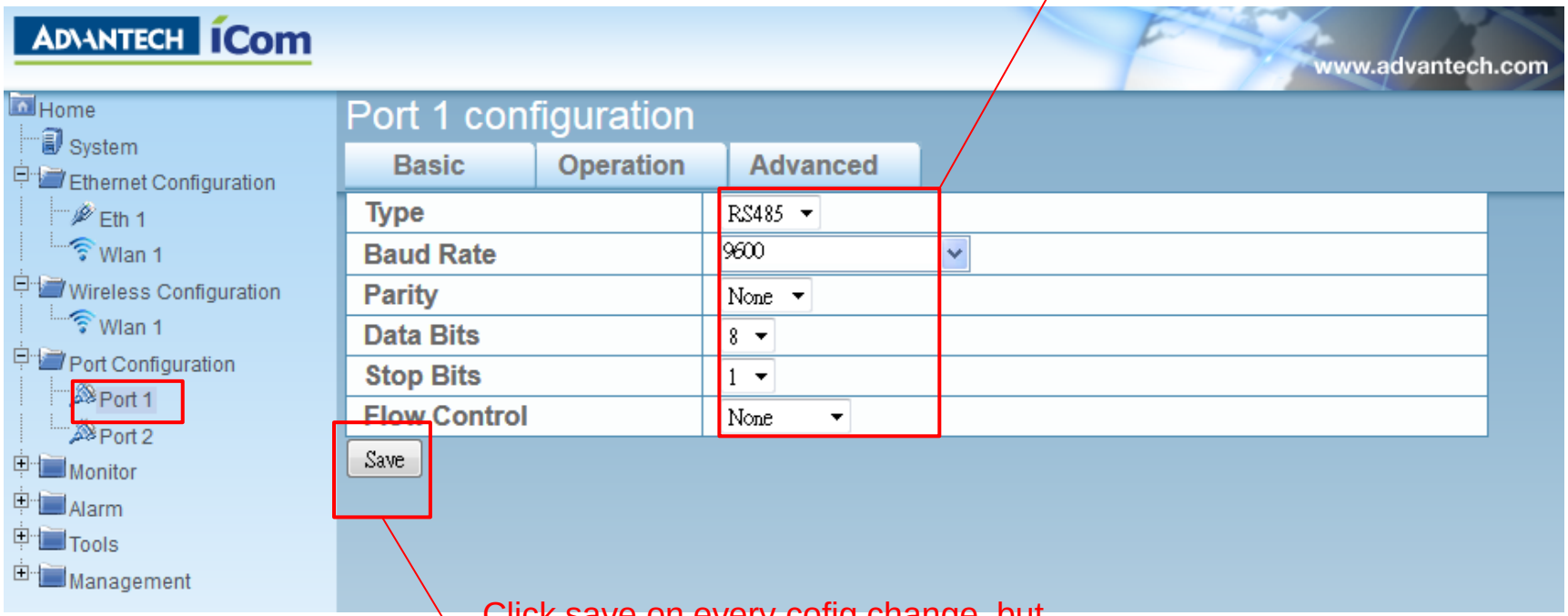


Test USDG Server Mode by TestView

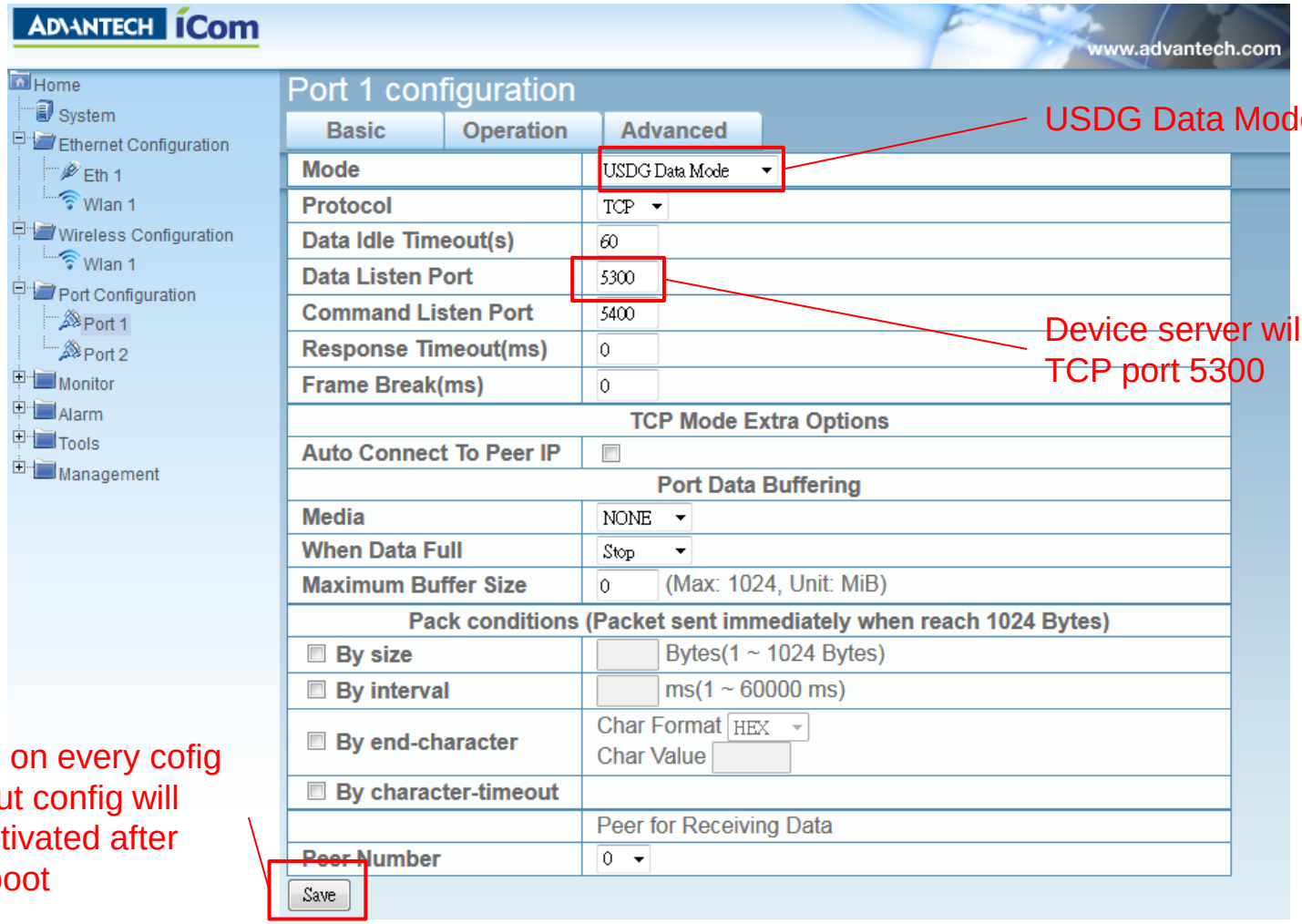
USDG Server Mode
Operation Topology



Serial Port Setting (1/2)



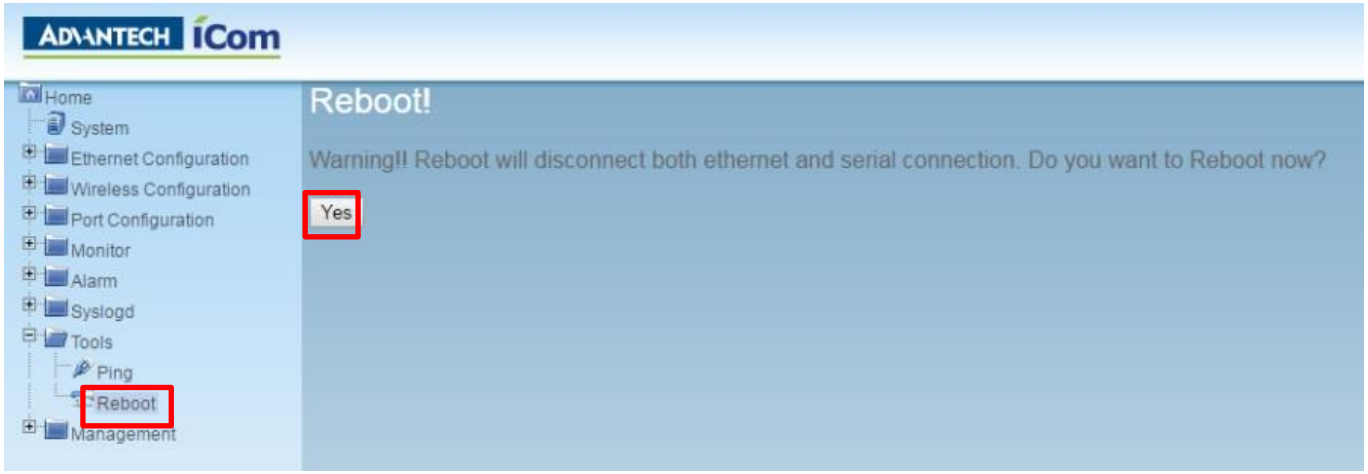
Serial Port mode setting (2/2)
USDG server mode



Click save on every cofig change, but config will only be activated after device reboot

Reboot the EKI-136x device

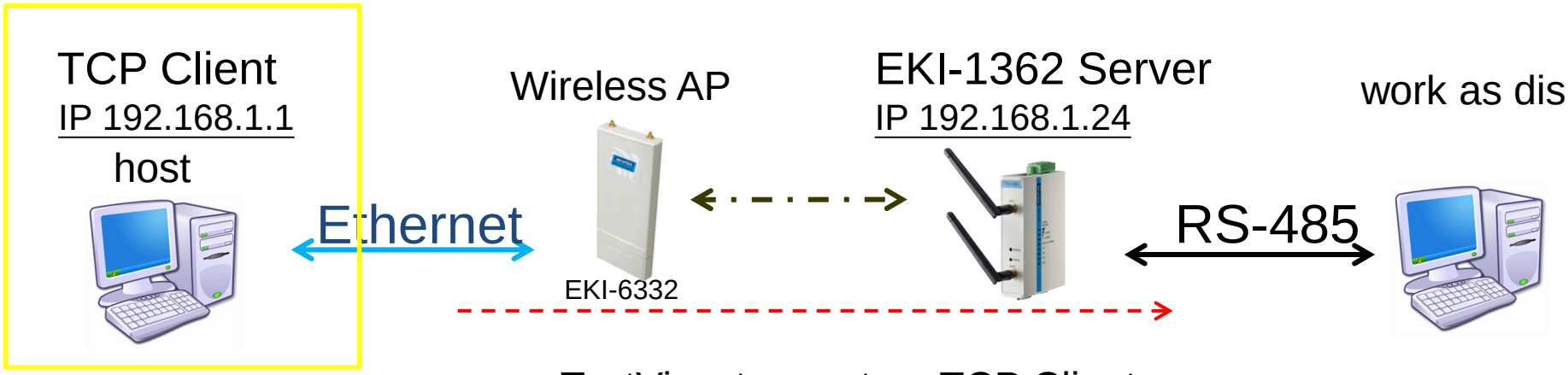
Step 1 :Reboot device after all setting done



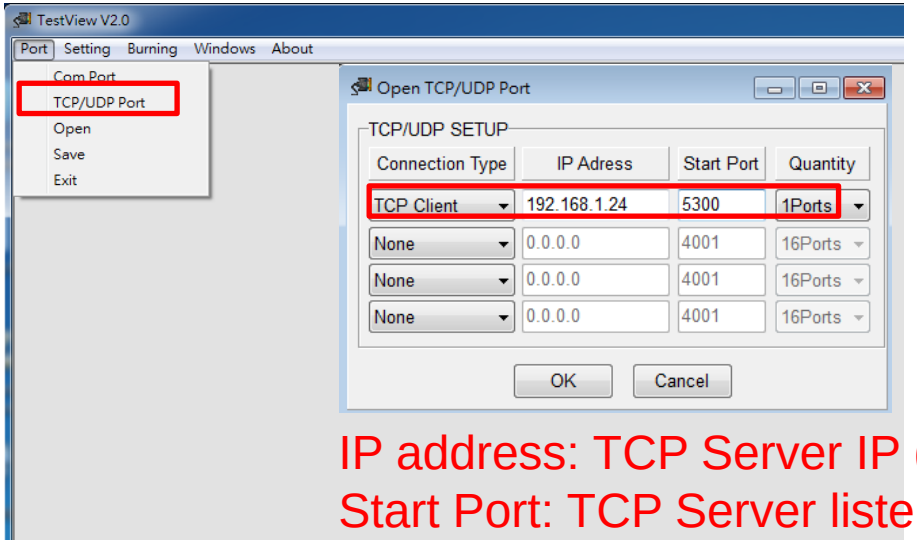
USDG Server Mode

Test by TestView

1st.

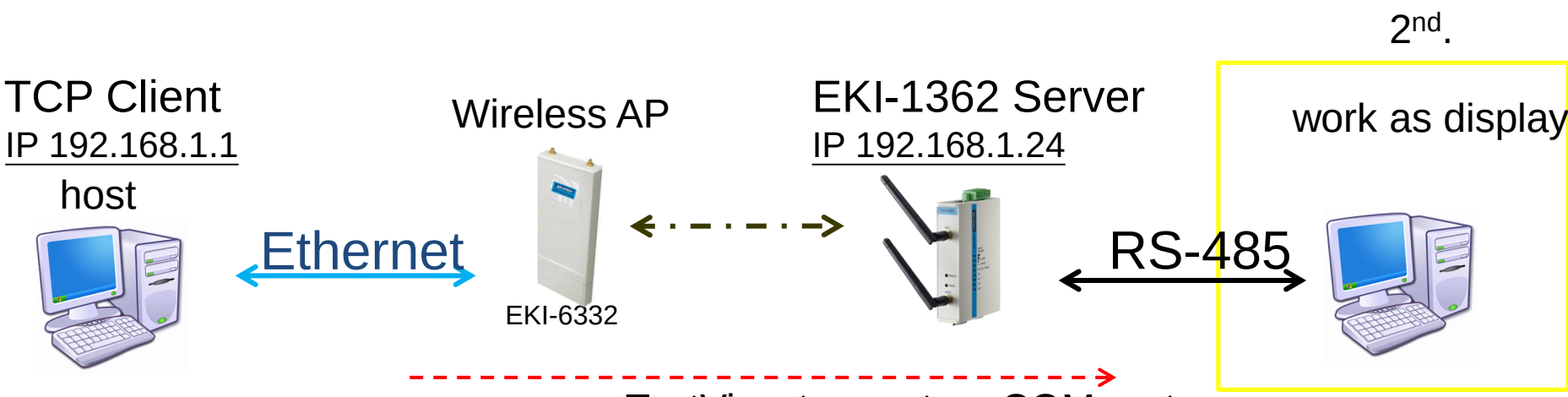


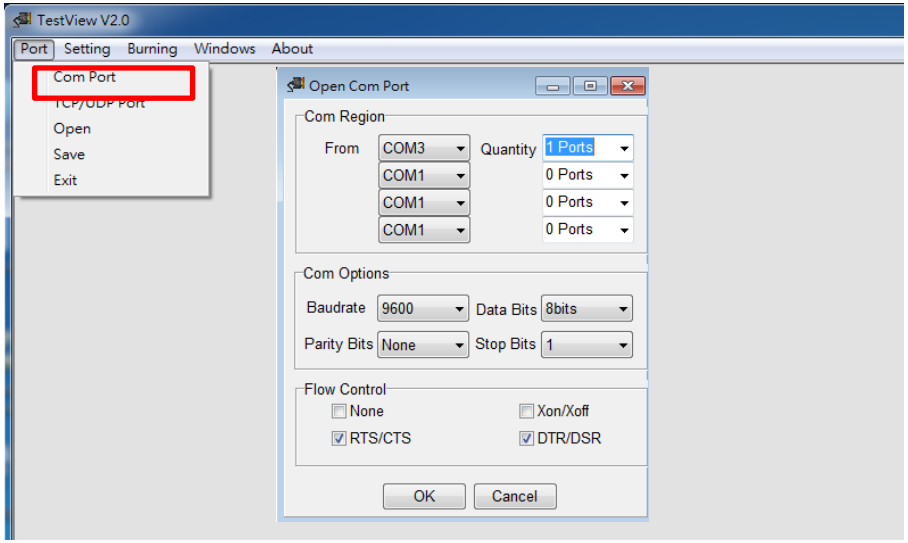
use TestView to create a TCP Client



IP address: TCP Server IP (device server)
Start Port: TCP Server listen Port (device Server)

USDG Server Mode
Test by TestView





TCP Client
IP 192.168.1.1
host

Wireless AP

EKI-1362 Server
IP 192.168.1.24

work as display

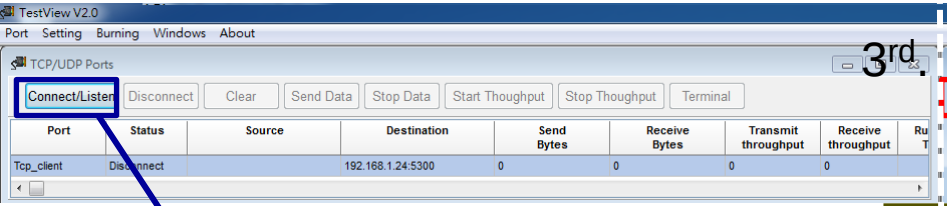
Ethernet

EKI-6332

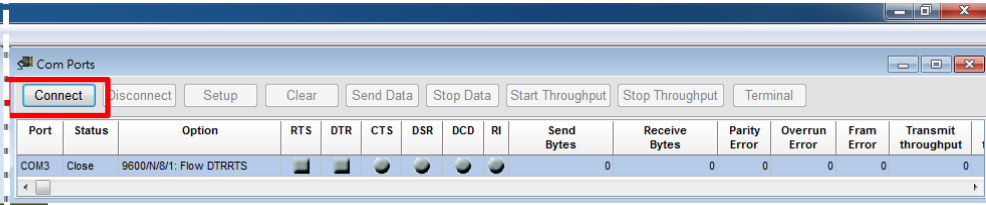
RS-485

use TestView to create a TCP Client

use TestView to create a COM port

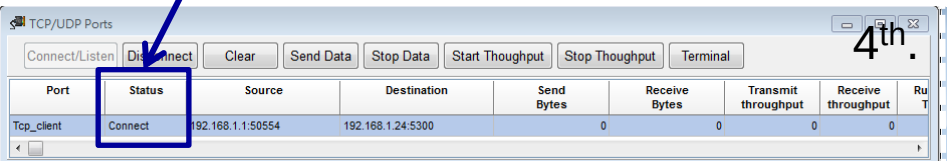


3rd.

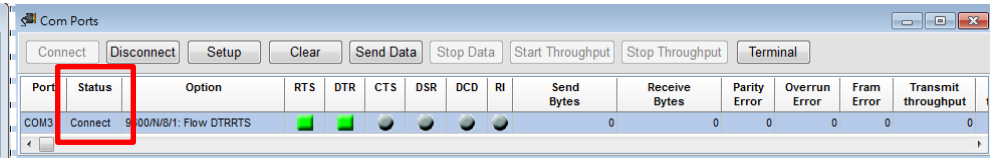


Press Connect to initial the connection

Host initial the connection



4th.



TCP Client
IP 192.168.1.1
host

Ethernet

Wireless AP

EKI-6332

EKI-1362 Server
IP 192.168.1.24

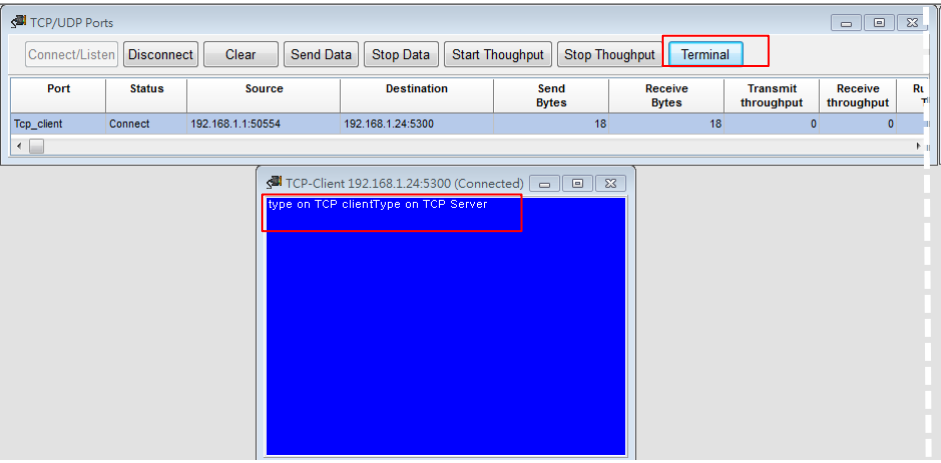
RS-485

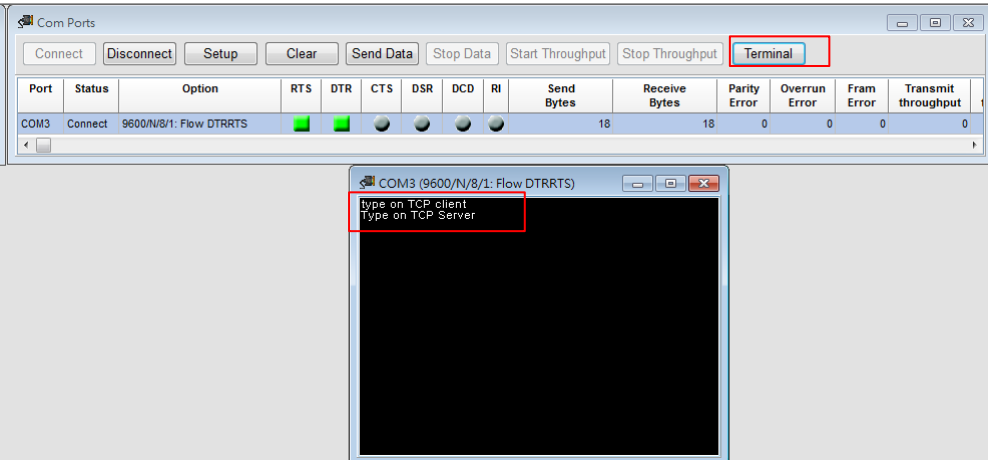
work as display

use TestView to create a TCP Client

use TestView to create a COM por

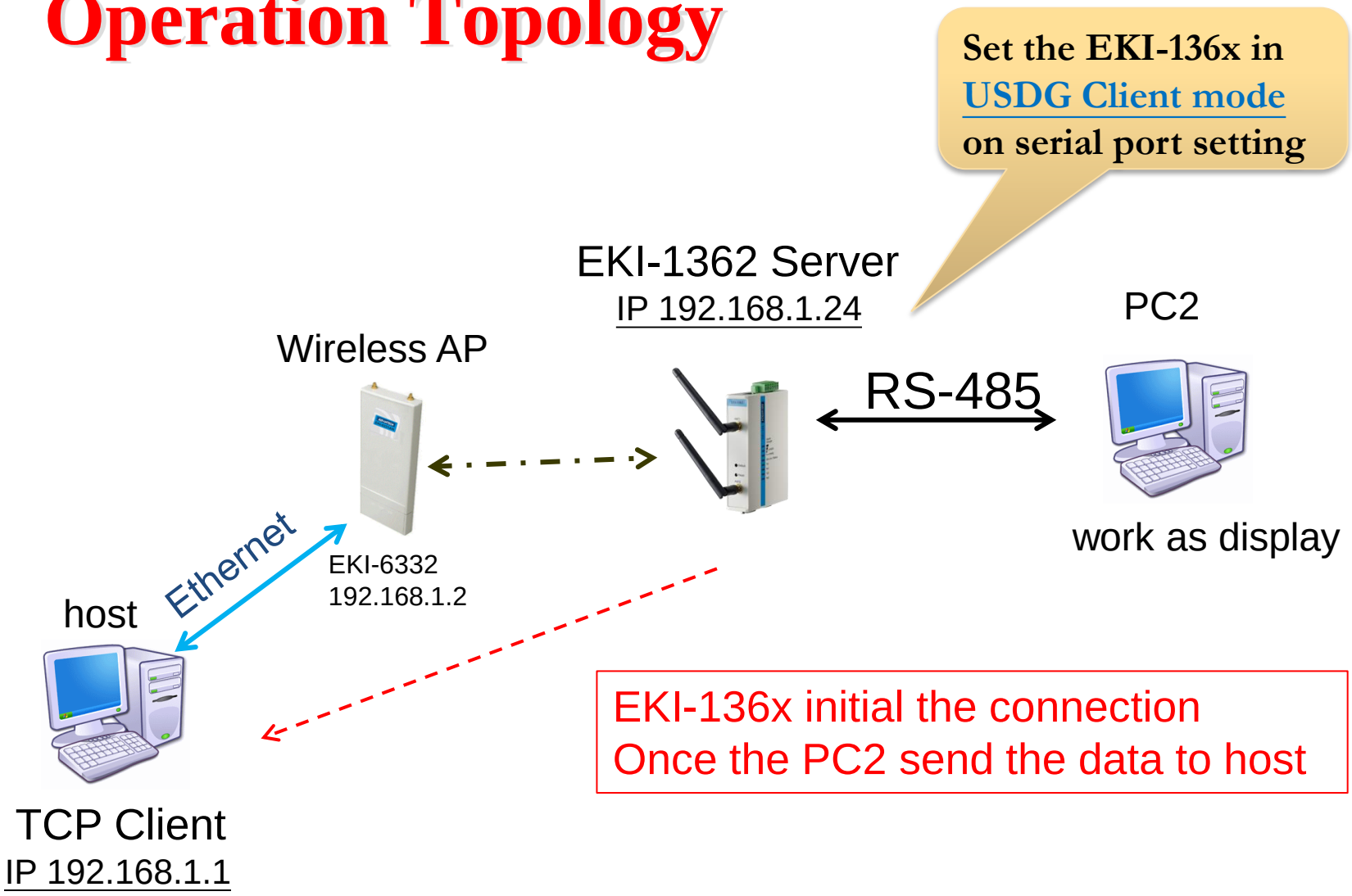
after starting connection, data can be sent by both side



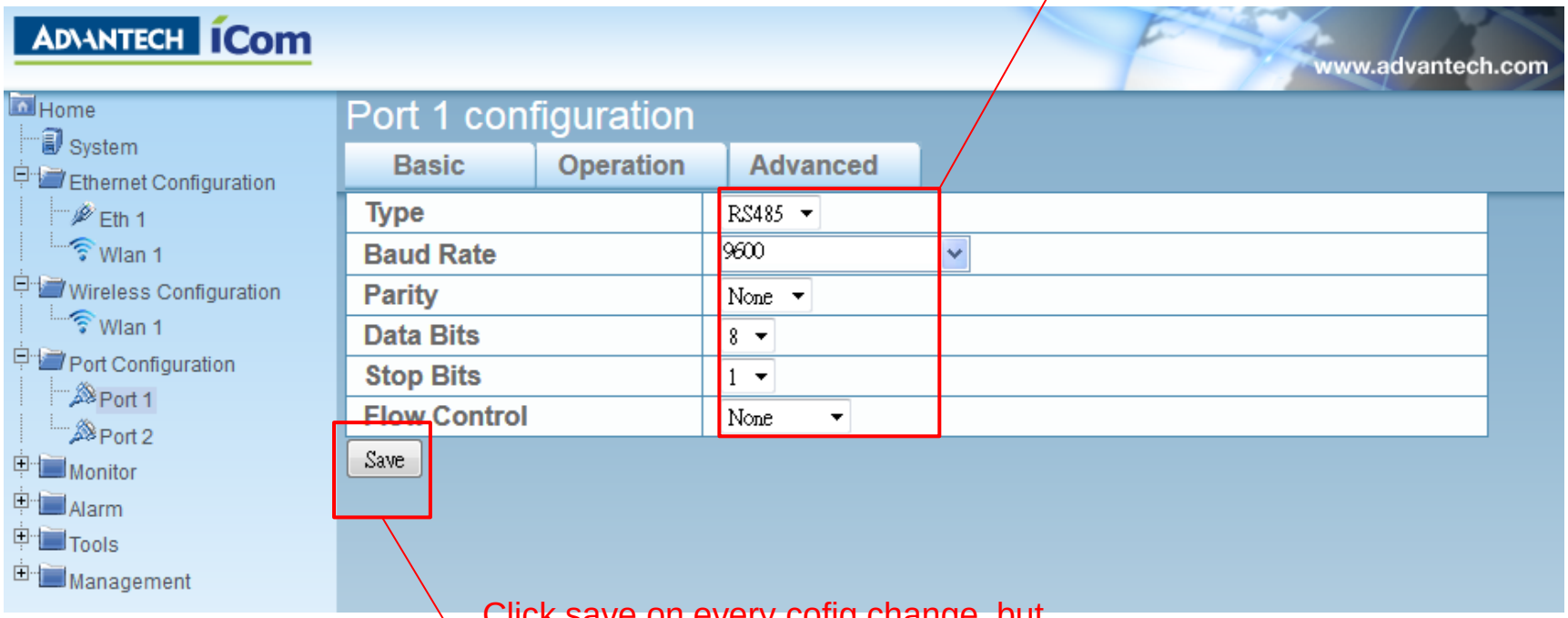


Test USDG Client Mode by TestView

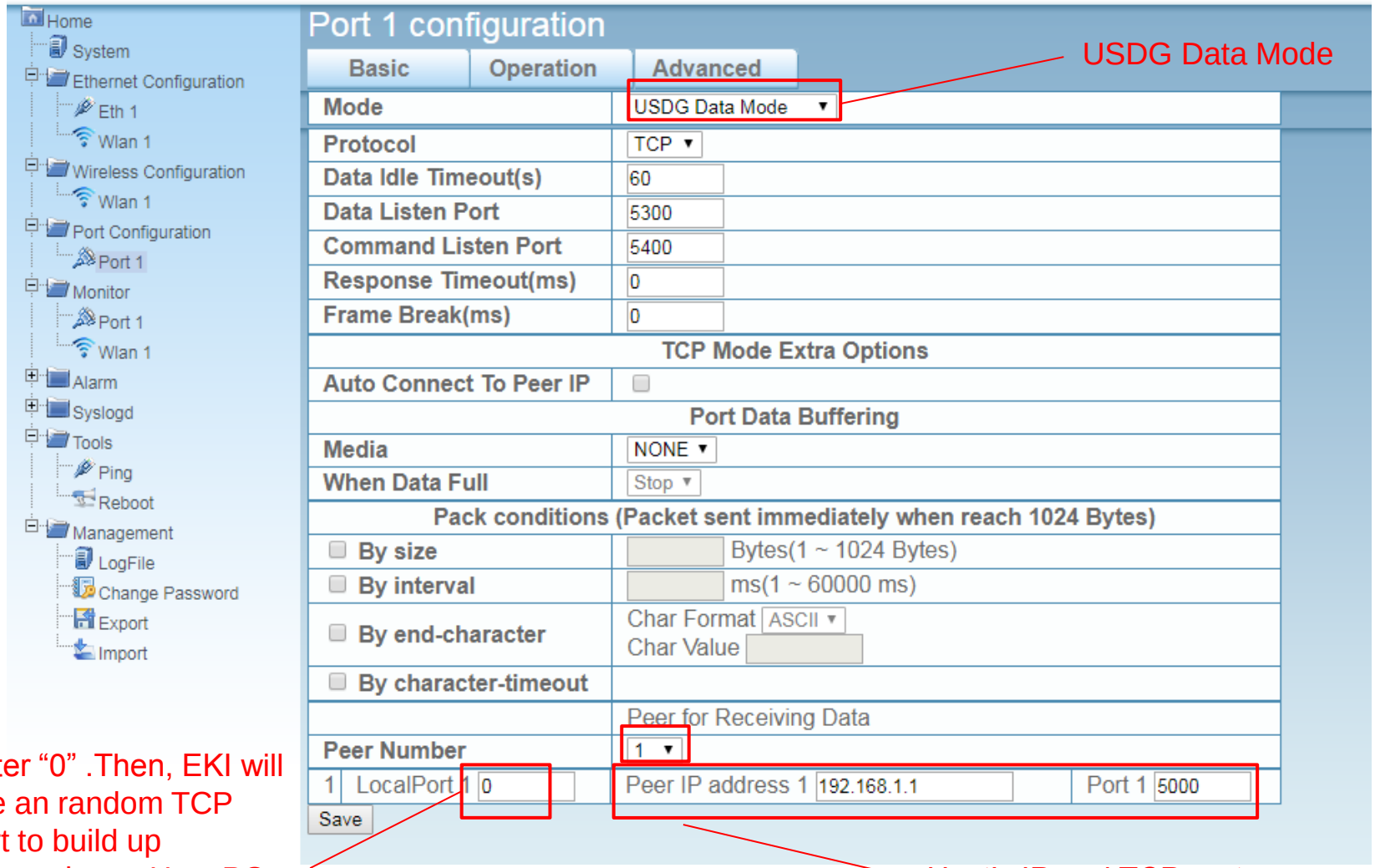
USDG Client Mode
Operation Topology



Serial Port Setting (1/2)



Serial Port mode setting (2/2)
USDG client mode

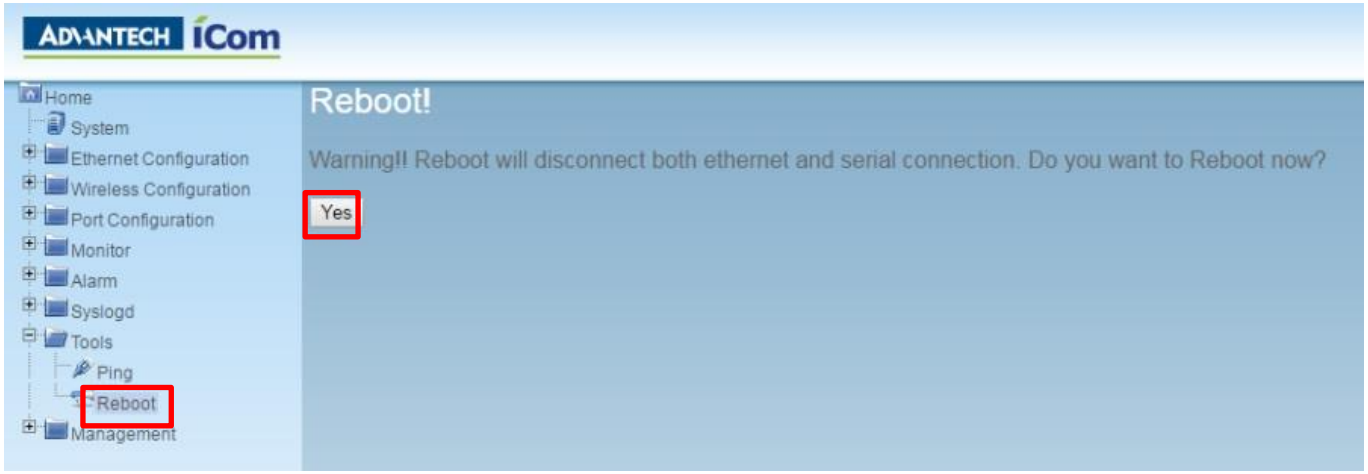


Enter “0” .Then, EKI will use an random TCP port to build up connection to Host PC

Host’s IP and TCP port

Reboot the EKI-136x device

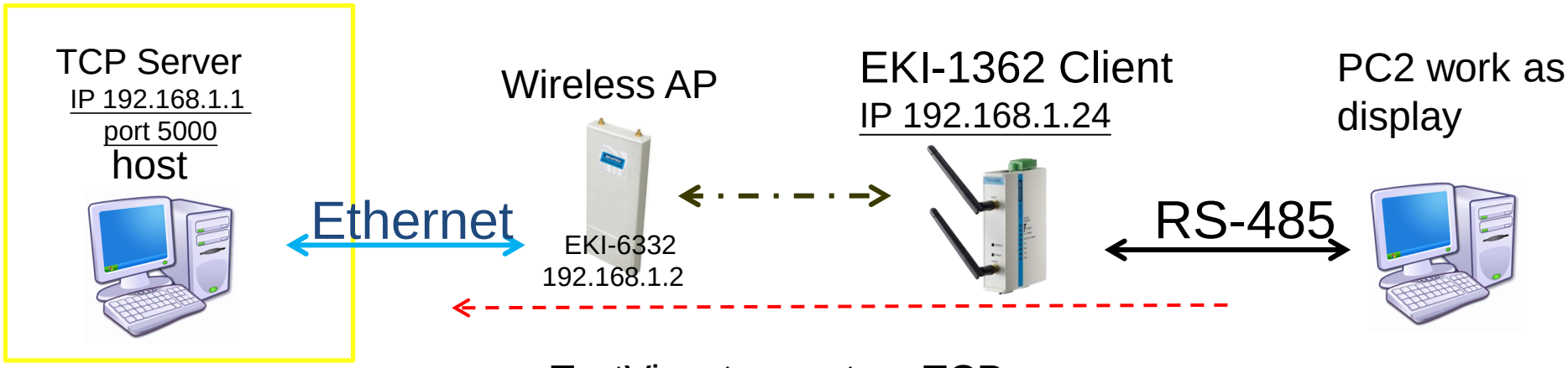
Step 1 :Reboot device after all setting done



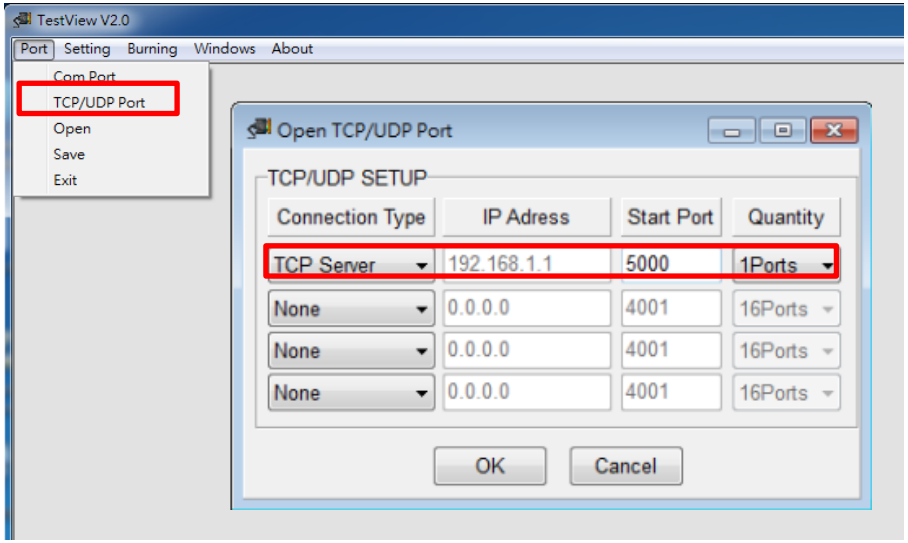
USDG Client Mode

Test by TestView

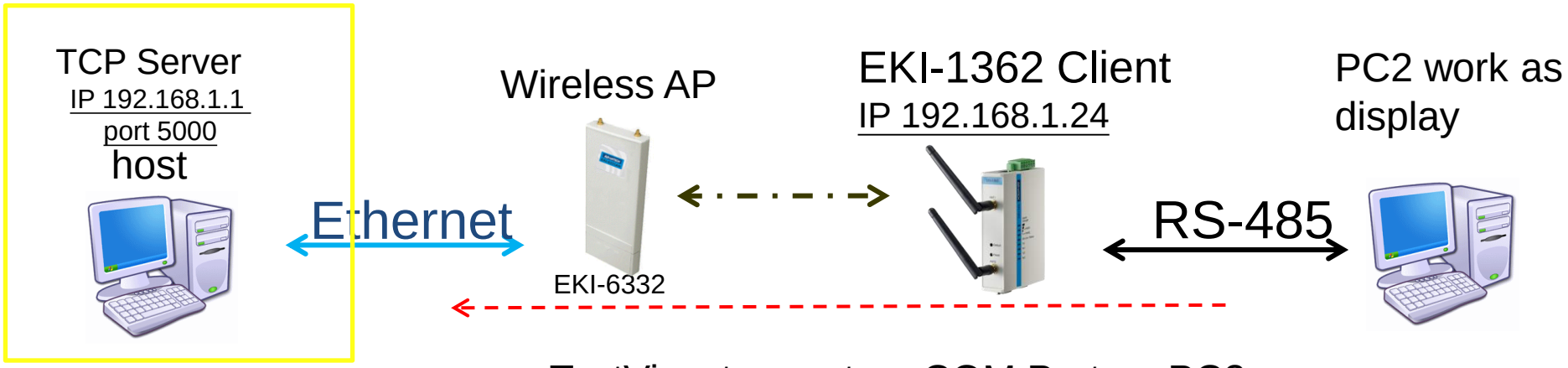
1st.



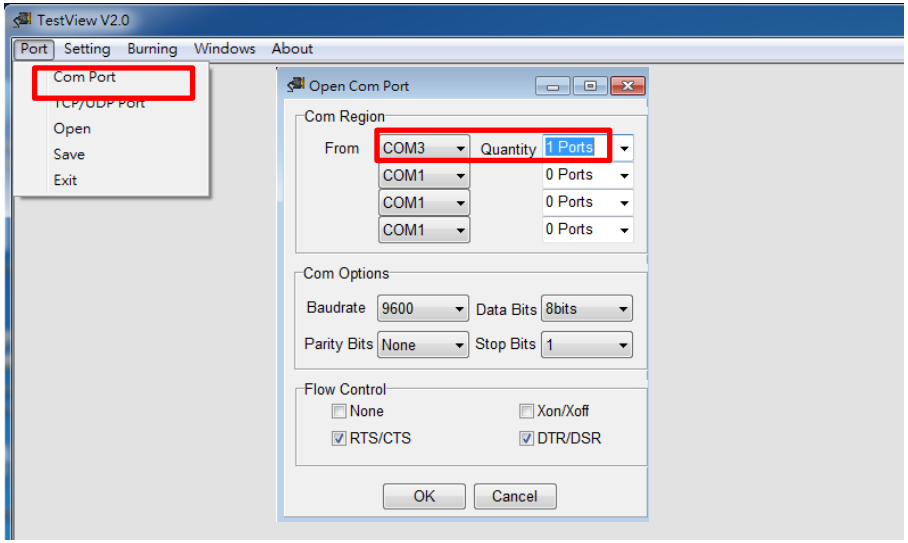
use TestView to create a TCP server



USDG Server Mode
Test by TestView



use TestView to create a COM Port on PC2



TCP Server
IP 192.168.1.1
port 5000
host

Ethernet

Wireless AP

EKI-6332

EKI-1362 Client
IP 192.168.1.24

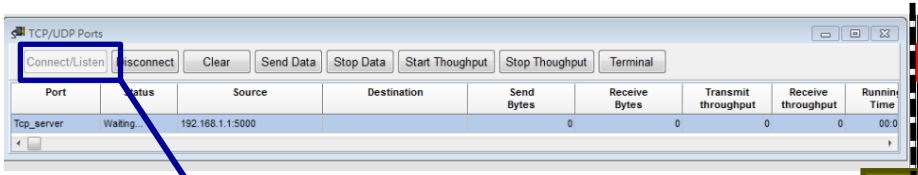
RS-485

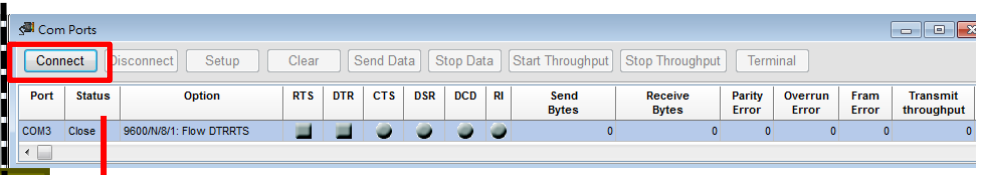
PC2 work as display

use TestView to create a TCP Client

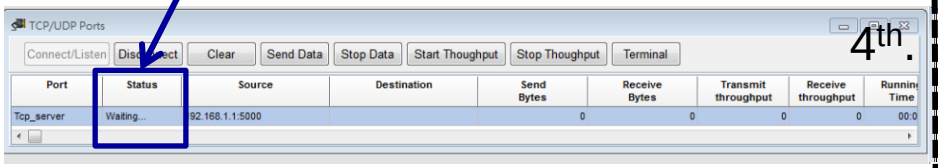
3rd.

use TestView to create a COM port

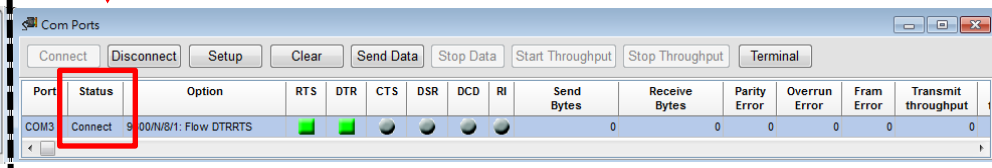




Press “Connect button” and
See the TCP Server is waiting for connection



4th.



TCP Server
IP 192.168.1.1
port 5000
host

Ethernet

Wireless AP

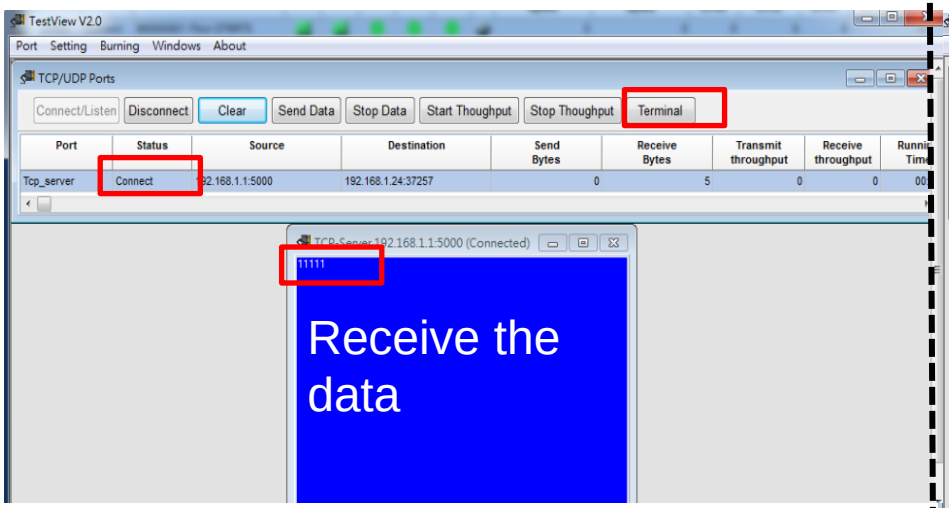
EKI-6332

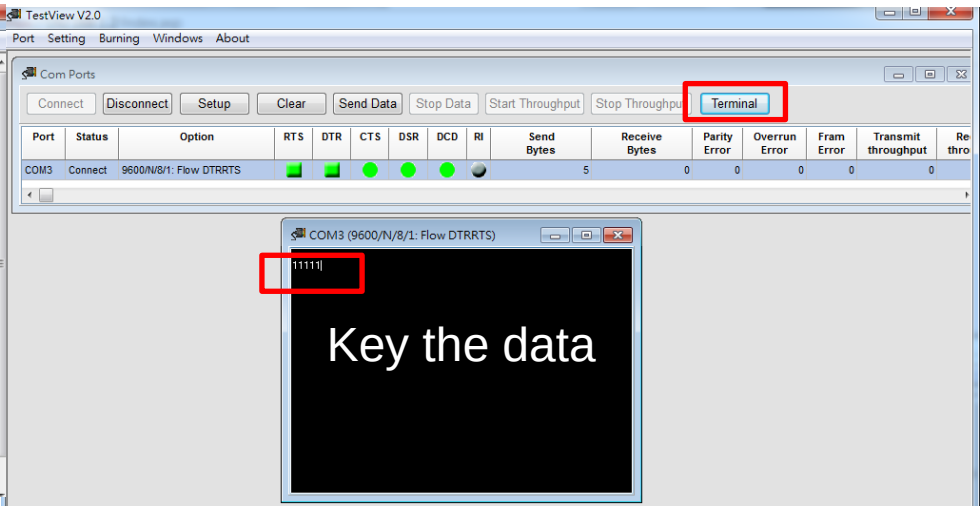
EKI-1362 Client
IP 192.168.1.24

RS-485

PC2 work as display

Once the PC2 starting sending data, EKI will make the connection to Host PC






Enabling an Intelligent Planet