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:**

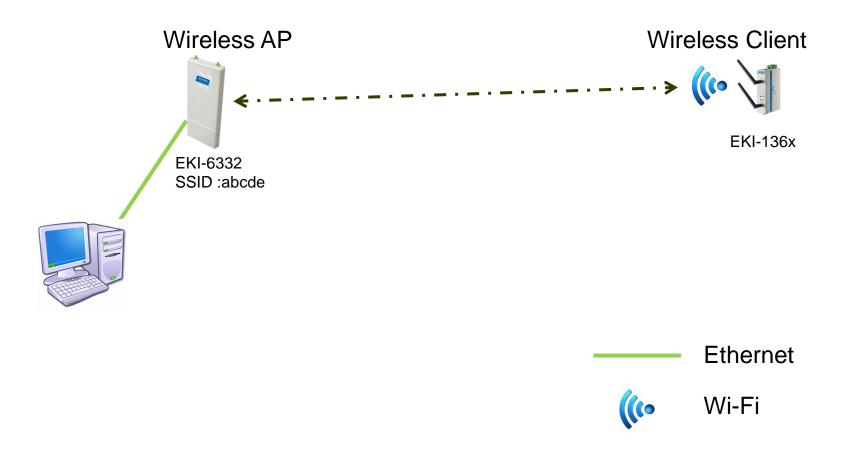
EKI-6332, EKI-136x-AE

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

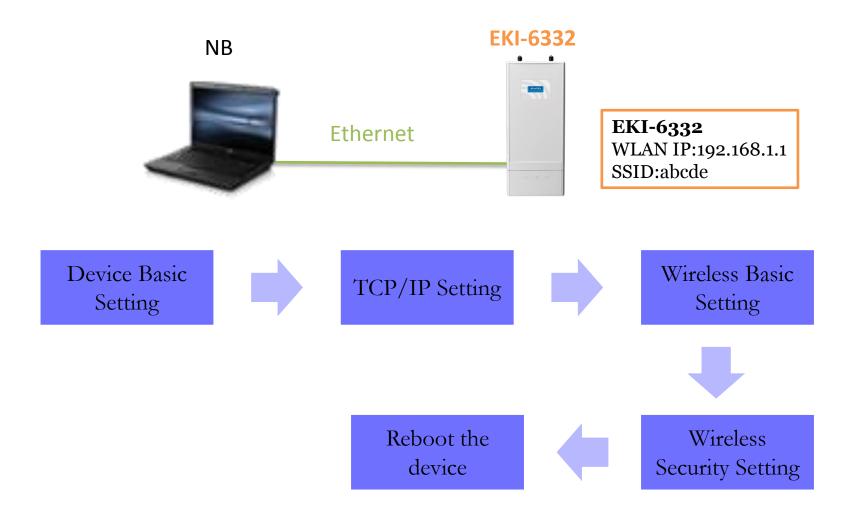


Wi-Fi connection Setup Between EKI-6332 & EKI-136x-AE

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



EKI-6332GN Configuration Flow chart

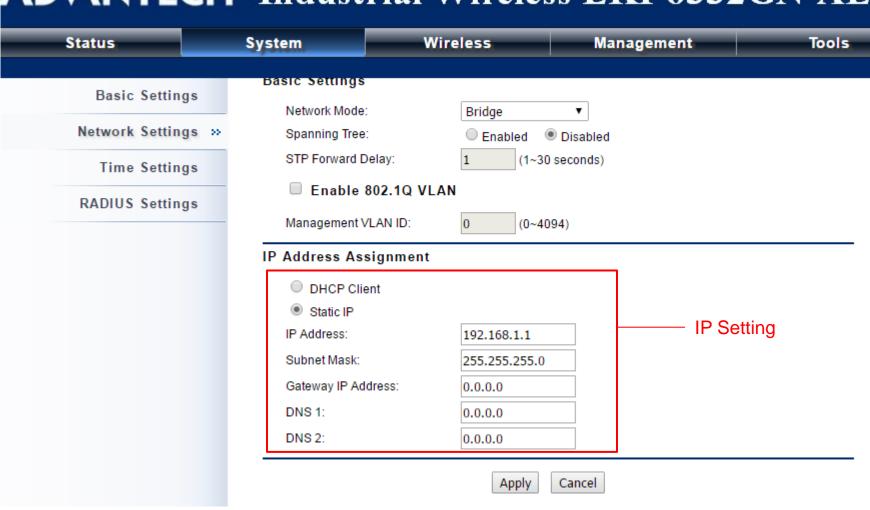


Device Basic Setting

AD\ANTECH Industrial Wireless EKI-6332GN-AE System Wireless Management Status Tools Basic Settings Network Settings Network Settings >> This page configures the IP address, subnet mask, DHCP, and other parameters for your local area network that is connected to the LAN port of the device. Time Settings Basic Settings RADIUS Settings Network Mode: Bridge Use Default "Bridge" mode Spanning Tree: Disabled Enabled STP Forward Delay: (1~30 seconds) ■ Enable 802.1Q VLAN Management VLAN ID: 0 $(0 \sim 4094)$ IP Address Assignment DHCP Client Static IP IP Address: 192.168.1.1 Subnet Mask: 255,255,255,0 Gateway IP Address: 0.0.0.0

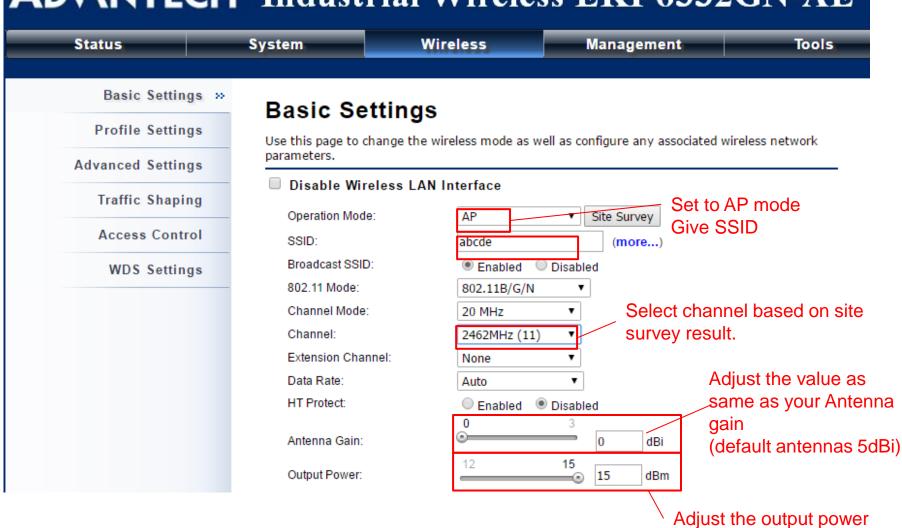
TCP/IP Setting

AD\ANTECH Industrial Wireless EKI-6332GN-AE



Wireless Basic Setting

AD\ANTECH Industrial Wireless EKI-6332GN-AE



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Wireless Basic Setting

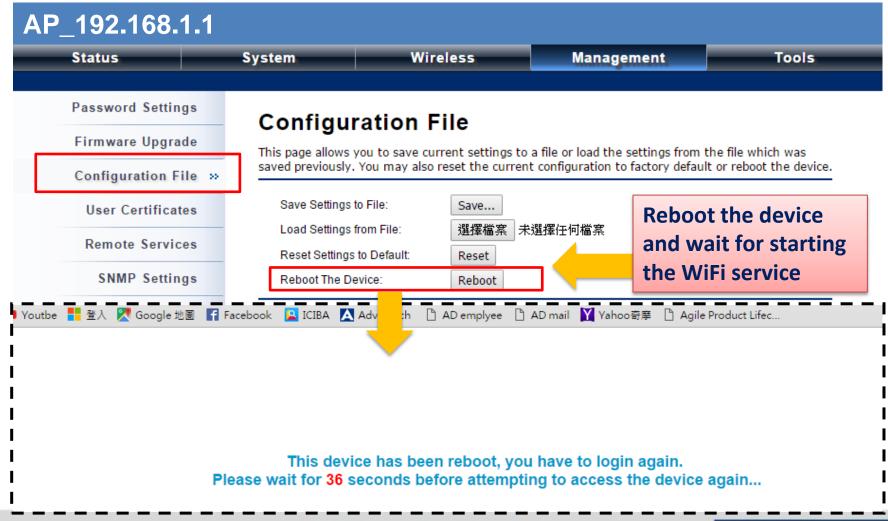
ADVANTECH Industrial Wireless EKI-6332GN-AE Wireless Status System Management Tools Basic Settings Profile Settings Profile Settings >> Select the security profile Define each VAP's attribute. Advanced Settings Enabled **Profile Name** SSID Security ♦ VLAN ID. Traffic Shaping Profile1 WPA2-PSK 4 abcde 0 Profile2 2 Wireless Open System Access Control 0 3 Profile3 Wireless Open System 0 **WDS Settings** Profile4 4 Wireless Open System 5 Profile5 Wireless Open System 6 Profile6 Wireless Open System 0 Profile7 Wireless Open System 0 8 Profile8 Wireless Open System 0 Apply Reset

WiFi Security Setting

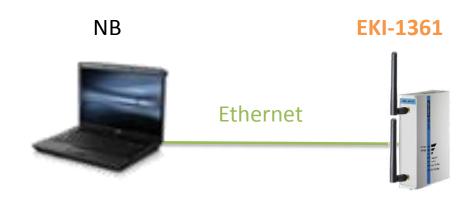
ADVANTECH Industrial Wireless EKI-6332GN-AE Wireless Management Tools Status System Basic Settings Define the VAP's basic settings and security settings. Basic Settings Profile Settings >> Profile Name: Profile1 Advanced Settings SSID: abcde Traffic Shaping Broadcast SSID: Disabled Enabled Wireless Separation: Enabled Disabled Access Control WMM Support: Enabled Disabled **WDS Settings** IGMP Snooping: Disabled Enabled Max Station Num: 32 (1-32)Kick STA RSSI: 80 (1~96)Security Settings Security setting WPA2-PSK Network Authentication: • Data Encryption: AES **** WPA Passphrase:



Reboot the Device

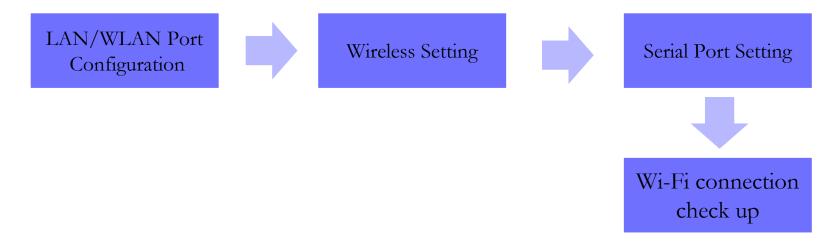


EKI-1361 Setting flow chart



Step 1: Connect the EKI-1361 via Ethernet cable

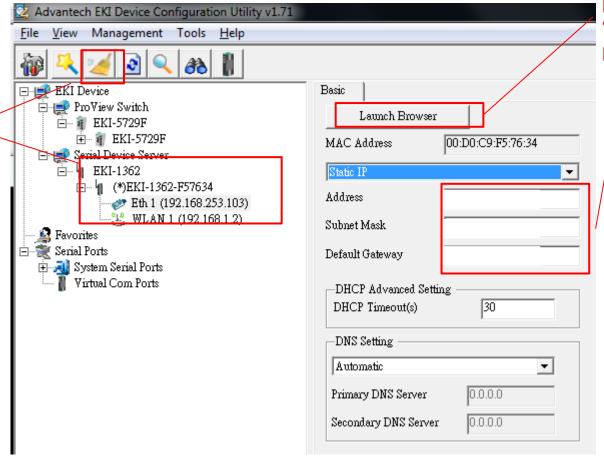
Step 2: follow the flow chart to set up EKI-1361 step by step.





LAN port configuration

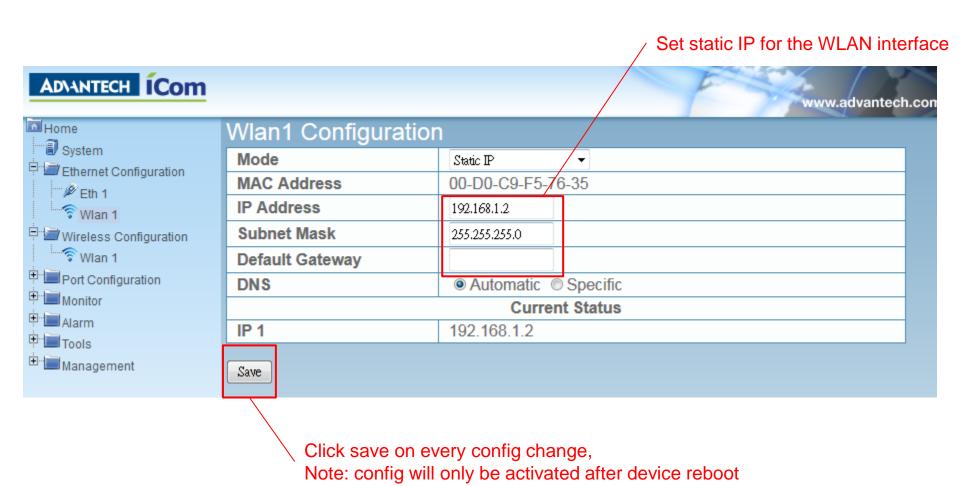
1.EKI Utility will able to scan the EKI-136x



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

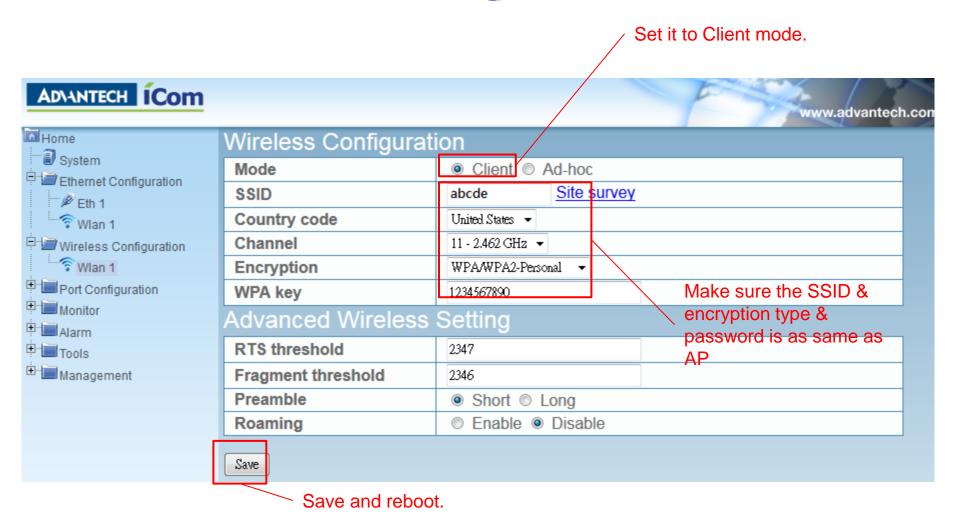
2.Config LAN IP to be the same subnet as the PC.

Wireless LAN (WLAN) Configuration





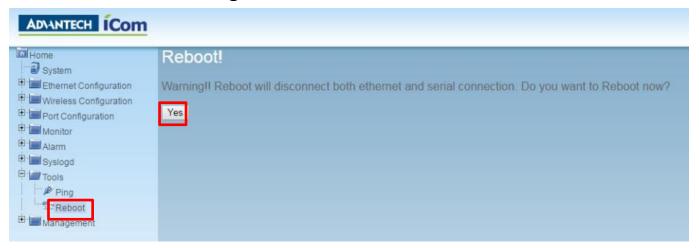
Wireless basic setting



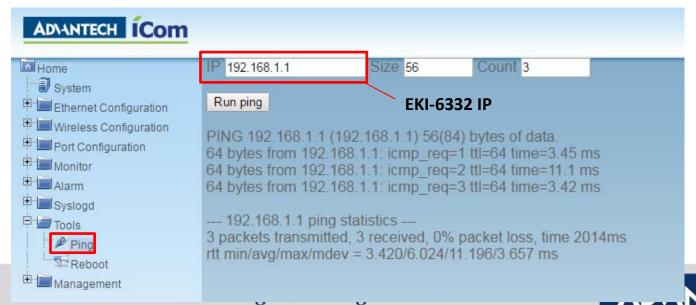


Reboot and Run the ping test

Step 1: Reboot device after all setting done

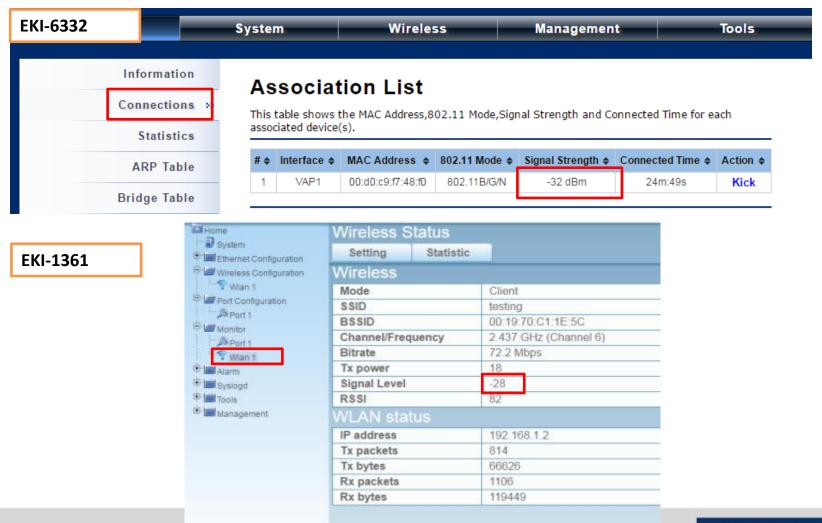


Step 2: ping EKI-6332 to make sure the wireless connection is established



Wi-Fi connection check up

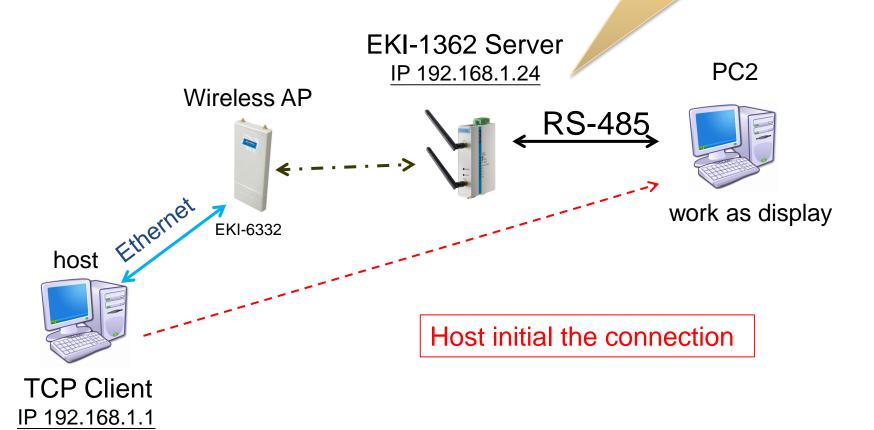
You may also check the Wi-Fi signal for AP/client on Web GUI



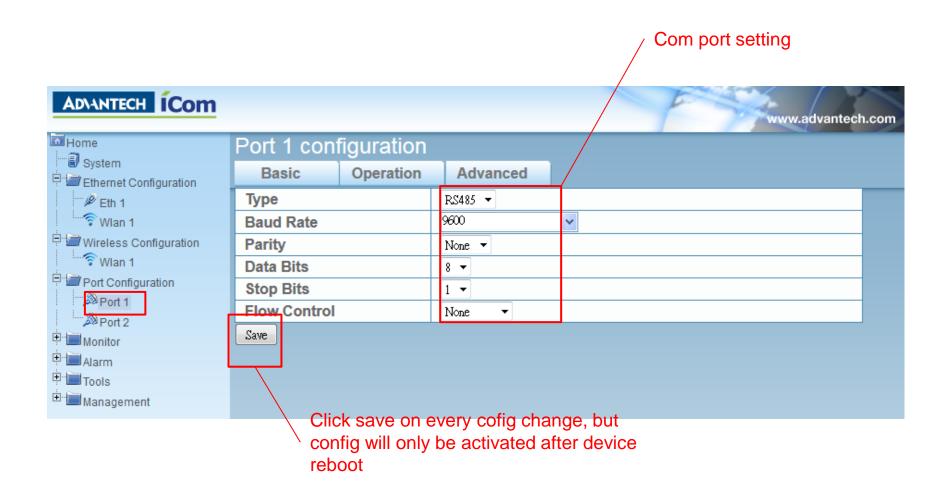
Test USDG Server Mode by TestView

USDG Server Mode Operation Topology

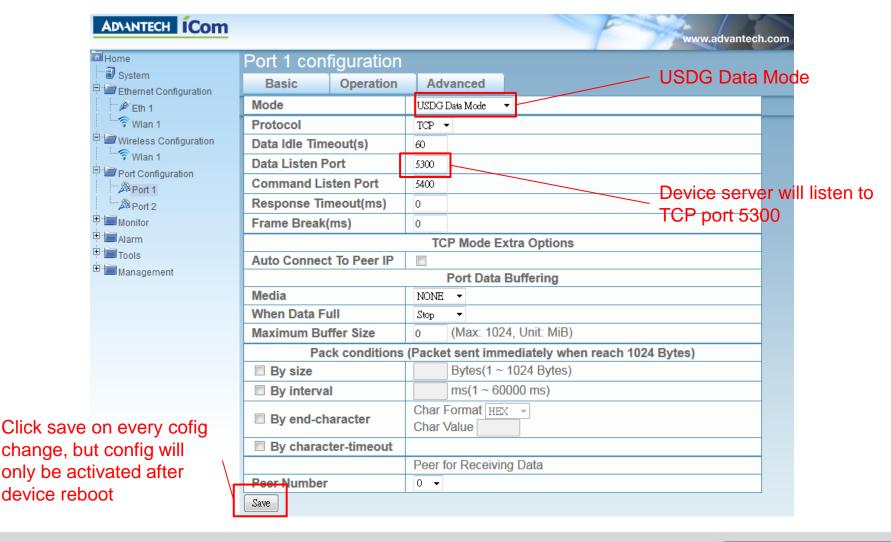
Set the EKI-136x in USDG server mode on serial port setting



Serial Port Setting (1/2)

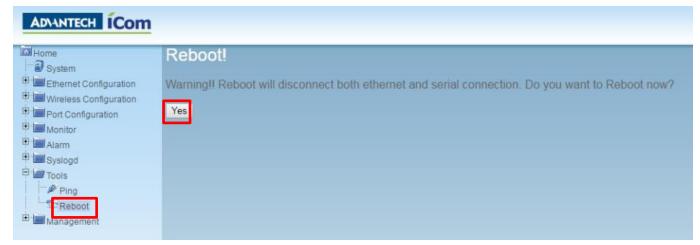


Serial Port mode setting (2/2) USDG server mode



Reboot the EKI-136x device

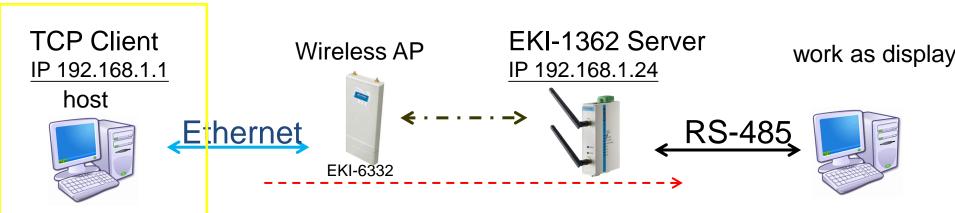
Step 1 :Reboot device after all setting done



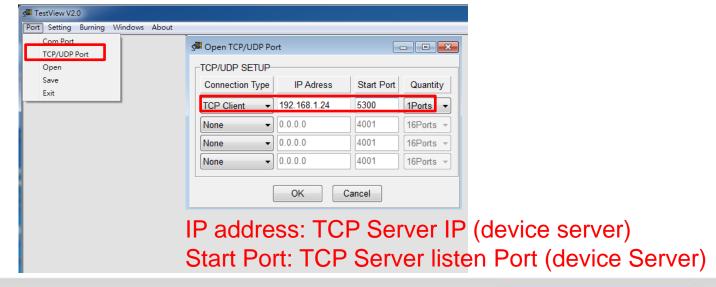
USDG Server Mode

Test by TestView

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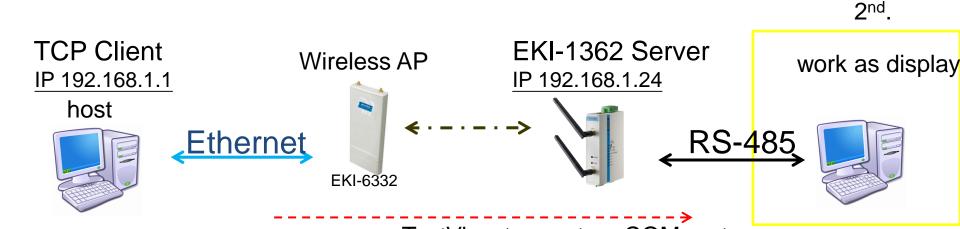


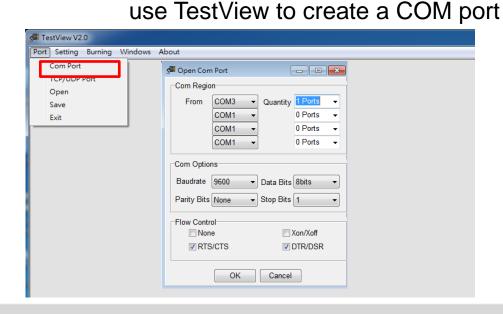
use TestView to create a TCP Client

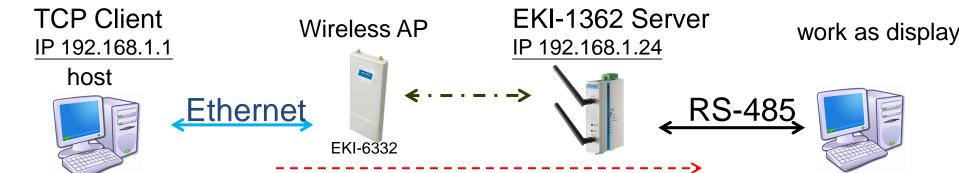




USDG Server Mode Test by TestView

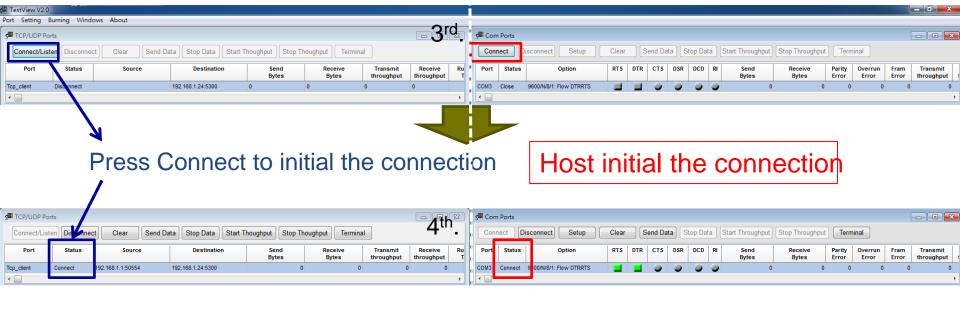


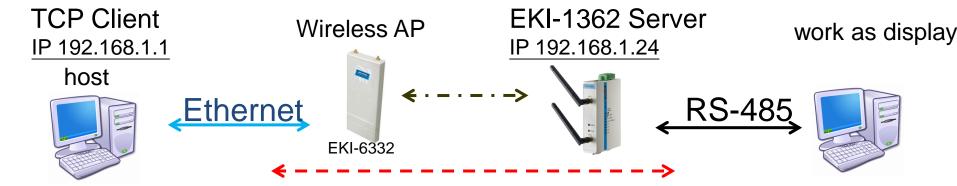




use TestView to create a TCP Client

use TestView to create a COM port

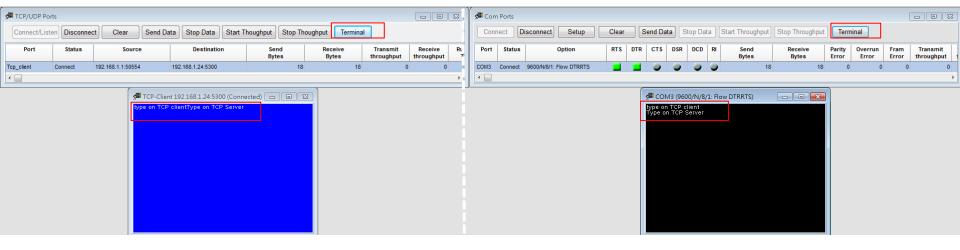




use TestView to create a TCP Client

use TestView to create a COM poi

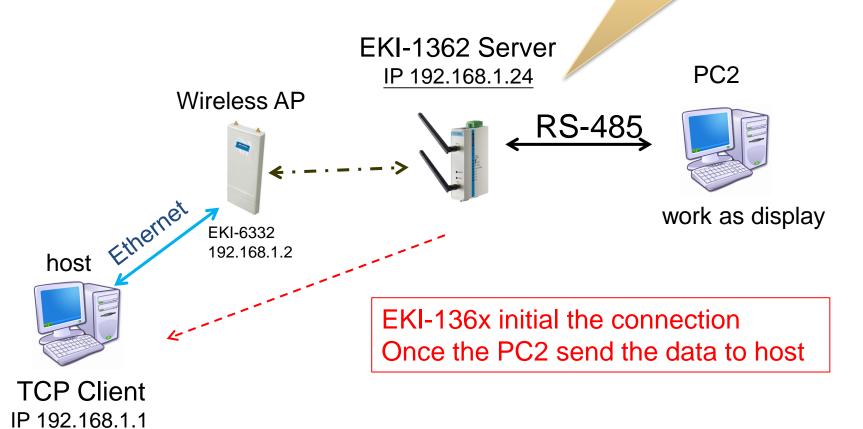
after starting connection, data can be sent by both side



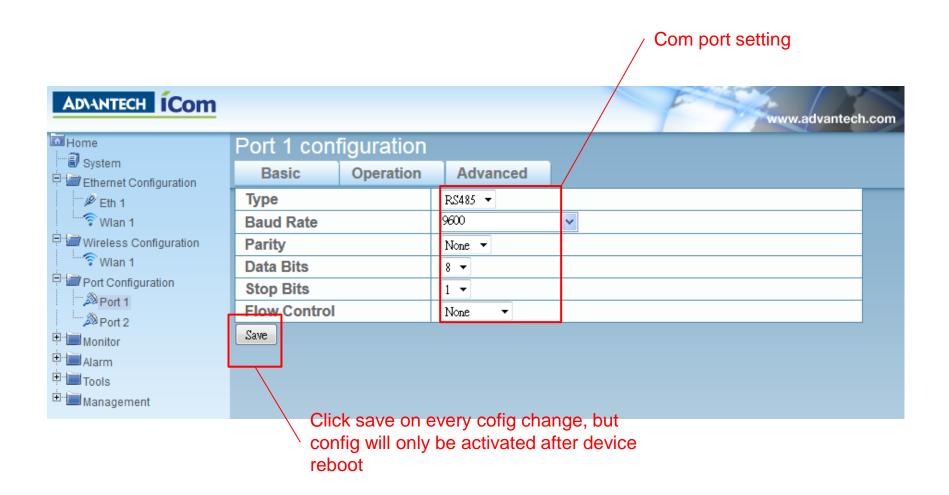
Test USDG Client Mode by TestView

USDG Client Mode Operation Topology

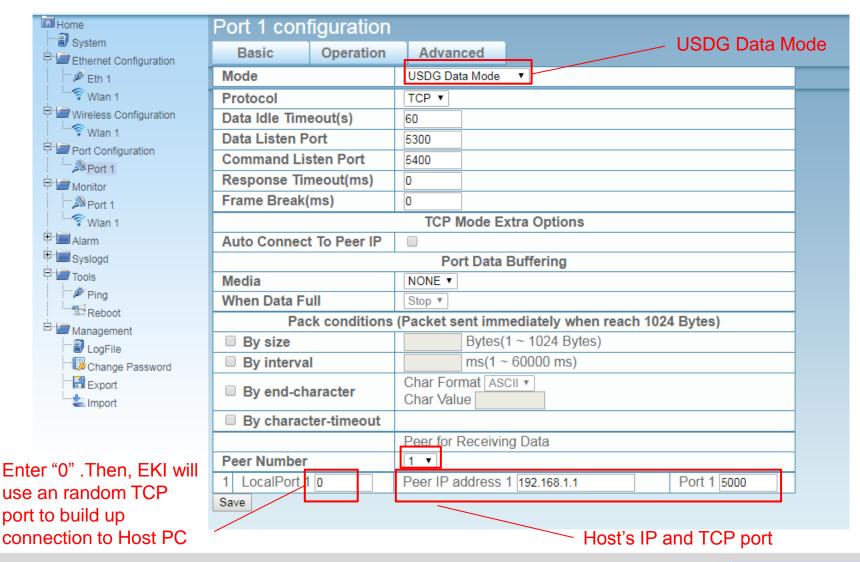
Set the EKI-136x in USDG Client mode on serial port setting



Serial Port Setting (1/2)

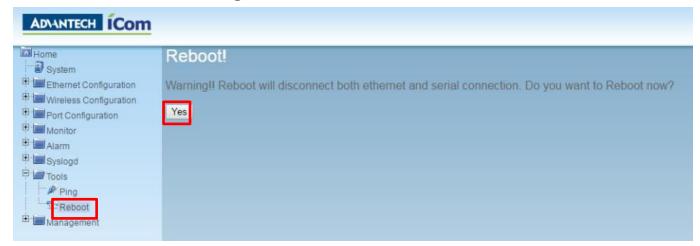


Serial Port mode setting (2/2) USDG client mode



Reboot the EKI-136x device

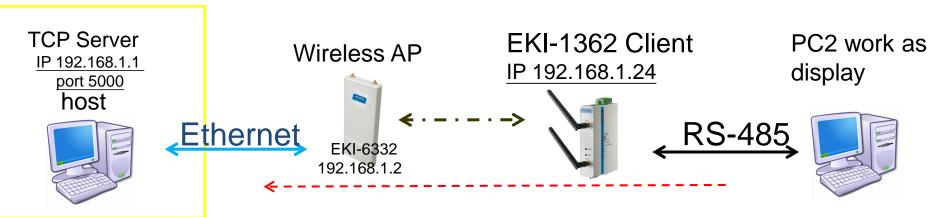
Step 1 :Reboot device after all setting done



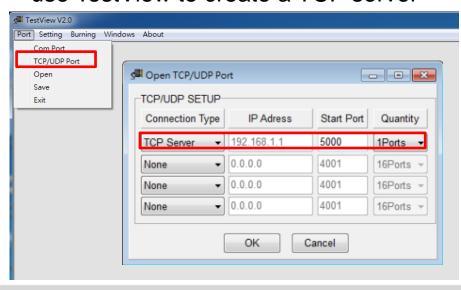
USDG Client Mode

Test by TestView

1st_

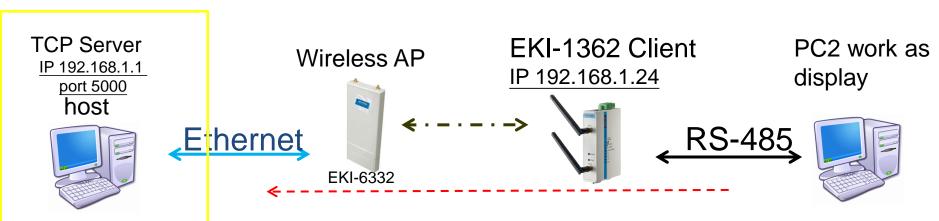


use TestView to create a TCP server

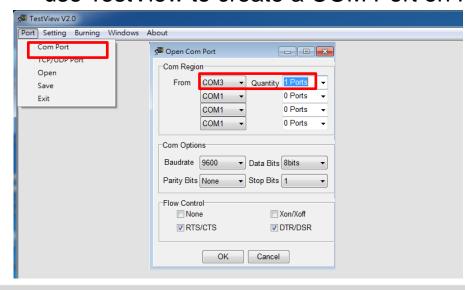


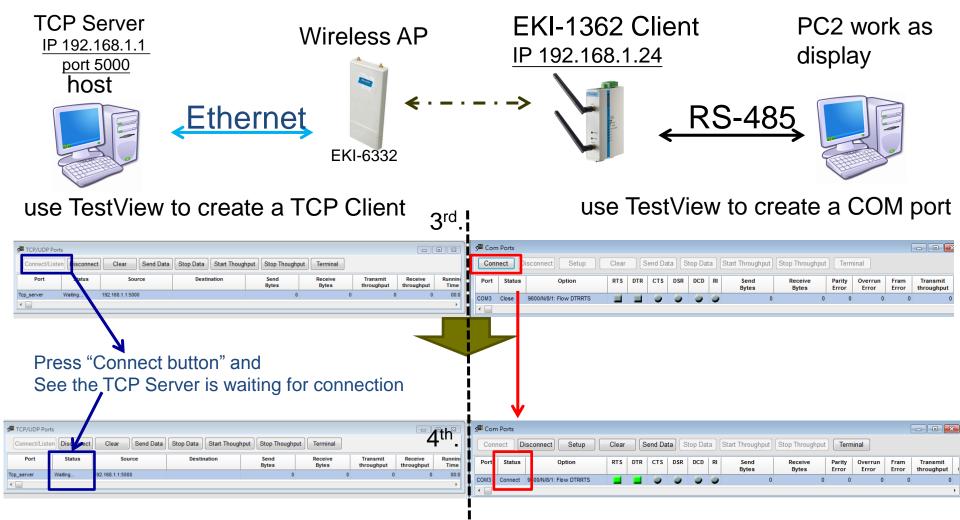


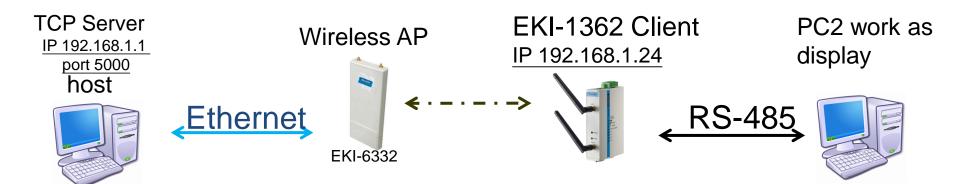
USDG Server Mode Test by TestView



use TestView to create a COM Port on PC2







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

