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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# WizFi630 User Manual

(Version 1.1)



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## Certification Information

### CE for Class B ITE

#### INFORMATION TO THE USER

Hereby, WIZnet. Declares that this WizFi630 is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC and other relevant provisions of directive 1999/5/EC.

**WARNING:** This is a class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures

### FCC for Class B ITE

#### INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant 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 to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made

## Document Revision History

Date	Revision	Changes
2012-07-02	1.0	Release
2012-07-17	1.1	Change WizFi630's picture at P10 Modify error sentence - P6, P18,P19 : WIZ630wi → WizFi630 - P24 : DNS server → DNS server address - P38 : WDS → WPS

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## 1. Introduction

WizFi630 is a gateway module that transforms the RS-232 protocol and TCP/IP protocol into IEEE802.11 b/g/n wireless LAN protocol. WizFi630 enables a device with RS-232 serial interface to connect to LAN or WLAN for remotely control, measuring, and administration. WizFi630 can also work as an IP router because of its internally embedded switch.

WizFi630 uses interfaces like Serial(UART), LAN, Wi-Fi(WLAN) to perform functions such as Serial(UART)-To-Wi-Fi, Serial-To-Ethernet, Ethernet-To-Wi-Fi. Users can connect to WizFi630's internal web server or use serial commands for simple Wi-Fi settings; not only serial devices but 8/16/32 bit micro controllers can also use UART for simple Wi-Fi settings.

WizFi630 can significantly reduce the processes for wireless module design, testing, and certification. Therefore, WizFi630 can be the best solution for users who lack wireless network experience.

WizFi630 follows the 802.11b/g/n standard and support up to 150Mbps speed in wireless interface.

WizFi630 provides a test board, pc software, and documents so that anyone can develop a wireless solution.

## 1.1. Features

- ◆ Complies with IEEE802.11b/g/n.
- ◆ Gateway/AP(Bridge)/AP-Client/Client(Station)/Ad-hoc Mode , WDS/Repeater supports
- ◆ 1T1R RF Interface
- ◆ Physical link rate up to 150Mbps
- ◆ Built-in 3 Ethernet Ports
- ◆ 2 Serial Ports supports
- ◆ Working as Wi-Fi Router
- ◆ WEP 64/128bit, WPA/WPA2-PSK TKIP, AES
- ◆ 802.1x (Only in AP mode)
- ◆ 802.11e and WMM (Wi-Fi Multimedia)
- ◆ Router and Firewall function supports

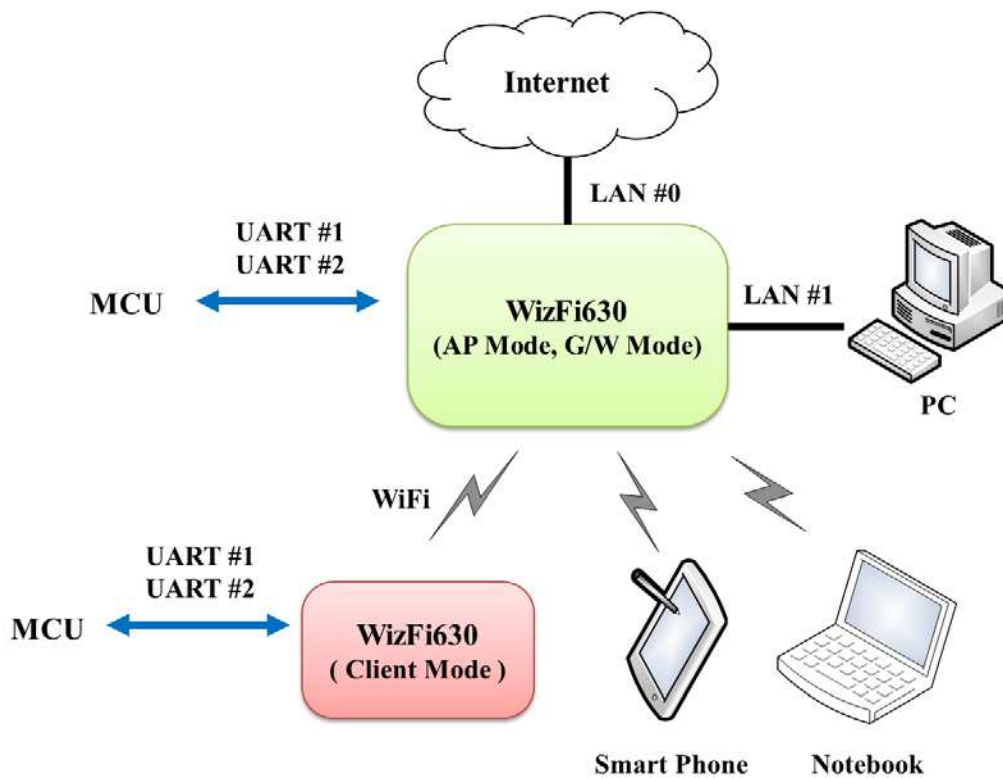


Figure 1. Example of WizFi630's Application



## 1.2. Wireless Specifications

Type	Description
<b>Wireless Standard</b>	IEEE802.11b/g/n
<b>Frequency Range</b>	USA: 2.400 ~ 2.483GHz Europe: 2.400 ~ 2.483GHz Japan: 2.400 ~ 2.497GHz China: 2.400 ~ 2.483GHz
<b>Operating Channels</b>	USA/Canada: 11(1 ~ 11) Major Europe Countries: 13(1 ~ 13) France: 4(10 ~ 13) Japan: 14 for 802.11b(1 ~ 14), 13 for 802.11g(1 ~ 13) Korea/China: 13(1 ~ 13)
<b>Output Power (Tolerance(+/-1dBm))</b>	802.11b: 17dBm@11Mbps 802.11g: 14dBm@54Mbps 802.11n: 14dBm@150Mbps/72Mbps
<b>Receive Sensitivity</b>	802.11b: -89dBm@11Mbps 802.11g: -74dBm@54Mbps 802.11n(40MHz): -66dBm@150Mbps 802.11n(20MHz): -70dBm@72Mbps
<b>Data Rates</b>	802.11b: 1,2,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n(20MHz): 7,14.5,21.5,28.5,43.5,57.5,65,72Mbps 802.11n(40MHz): 29.5,86.5,115,130,144,150Mbps
<b>Modulation Type</b>	11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 11b: DSS(CCK, DQPSK, DBPSK)
<b>Antenna</b>	u.FL (EVB : 1T1R 2dBi)

Table 1. Wi-Fi Specifications

### 1.3. Hardware Specifications

Type	Description
<b>Interface</b>	<b>Serial port</b> : 2 EA <b>LAN port</b> : 3EA <b>USB port</b> : 1 USB Host Port ( Reserved )
	U.FL(wireless)
<b>Temperature</b>	Operation: -10°C~70°C
<b>Humidity</b>	Operation: 10% to 90%, Non-Condensing Storage: 5% to 90%, Non-Condensing
<b>Serial</b>	Baud Rate : 1200 ~ 921,600bps
	Stop bits: 1, 2
	Parity: None, Odd, Even
	Flow Control: UART1: XON/XOFF(software), CTS/RTS(hardware), none UART2: XON/XOFF, none
<b>Input Power</b>	DC 3.3V / 1A
<b>Power Consumption</b>	Max : 3.3V / 600mA
<b>Dimension</b>	33mm X 43mm X 4.5mm
<b>Weight</b>	6g

Table 2. WizFi630 Module Specifications



## 1.4. Software Specifications

Type	Description
<b>Operation Mode</b>	Access Point(Bridge), Client(Station), Gateway, AP-Client, ad-hoc
<b>Protocol</b>	TCP, UDP, ARP, ICMP, DHCP, PPPoE, HTTP
<b>Security</b>	WEP 64/128bit WPA/WPA2-PSK AES/TKIP 802.1x ( Only in AP Mode )
<b>Configuration</b>	Web Configuration, Serial Command, Configuration Tool
<b>Notification</b>	Event Logging
<b>Serial To Wi-Fi</b>	2 Serial Port supports

Table 3. SW Specifications

## 1.5. EVB Construction

### 1.5.1. Contents

Section	Qty.	Contents
WizFi630	1ea	WizFi630
		
WizFi630-EVB	1ea	WizFi630-EVB
		

<b>Antenna</b>	<b>1 ea</b>	2dBi WI-FI Antenna (Model : W5I-B0-08)
		
<b>Serial Cable</b>	<b>1 ea</b>	Serial Cable
		
<b>LAN Cable</b>	<b>1 ea</b>	LAN Cable
		
<b>Adapter</b>	<b>1ea</b>	DC 5V/2A Adapter
		

Table 4. WizFi630-EVB Contents

## 1.6. Block Diagram

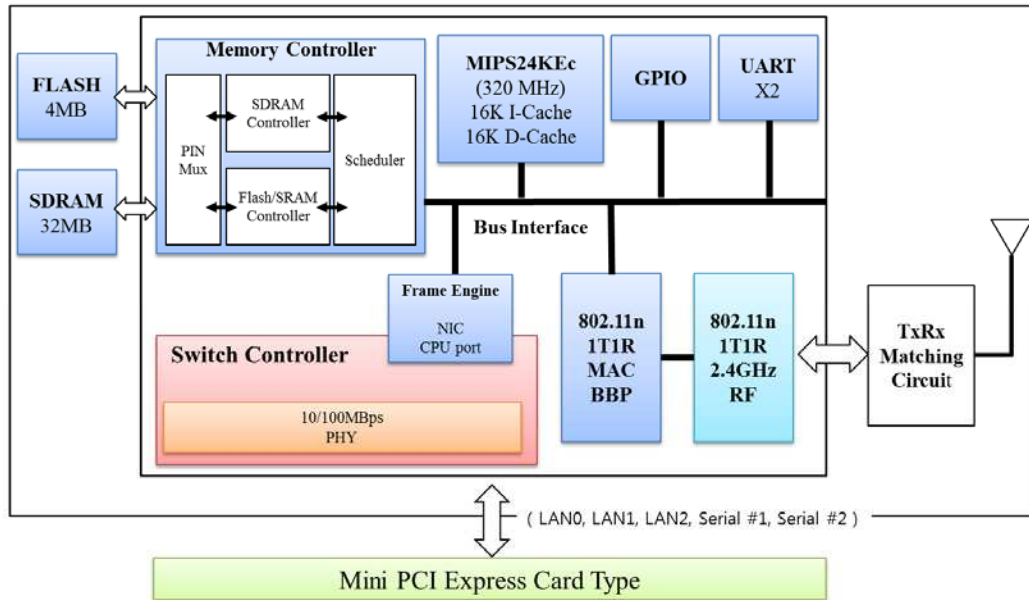
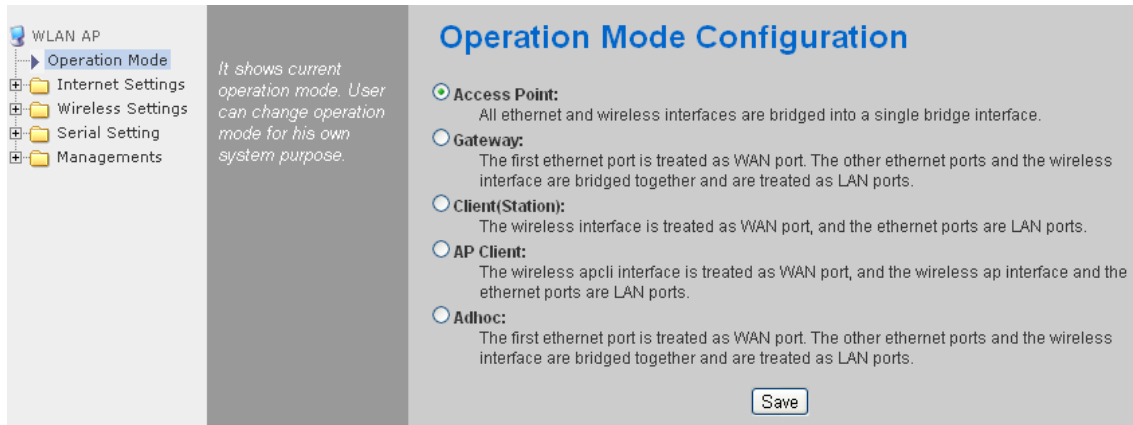


Figure 1. WizFi630 Block Diagram

## 2. Operation Mode and Description of Menu

### 2.1. Operation Mode

- ◆ User can select the operation mode.
- ◆ The default setting of WizFi630 is AP Mode. (DHCP Server Enabled)
- ◆ DHCP Server is usually disabled in AP mode, but for the user's convenience, DHCP Server will be enabled.

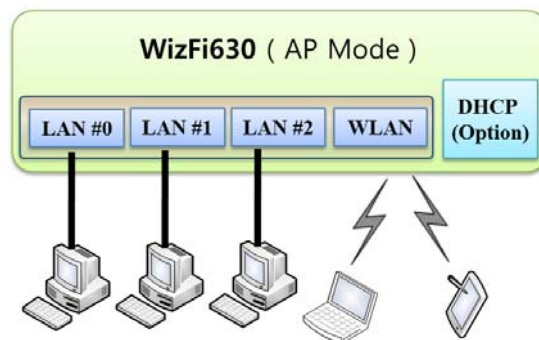


The screenshot shows the 'Operation Mode Configuration' page. On the left is a navigation tree with 'WLAN AP' selected, and 'Operation Mode' is the active sub-menu. A note states: 'It shows current operation mode. User can change operation mode for his own system purpose.' The main content area lists five modes with radio buttons:
 

- Access Point:** All ethernet and wireless interfaces are bridged into a single bridge interface.
- Gateway:** The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- Client(Station):** The wireless interface is treated as WAN port, and the ethernet ports are LAN ports.
- AP Client:** The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.
- Adhoc:** The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

 A 'Save' button is located at the bottom right of the configuration area.

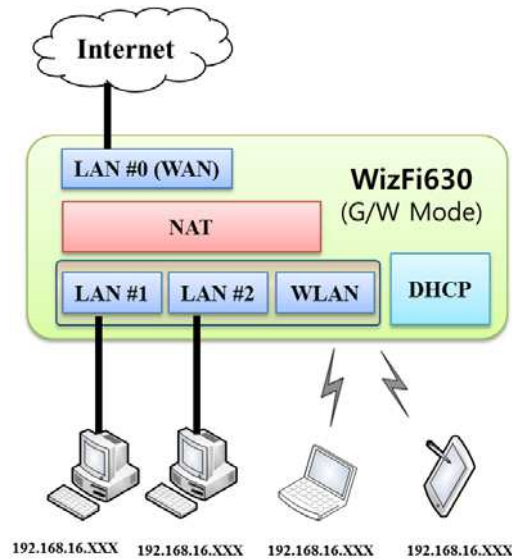
#### 2.1.1. Access Point



In this mode, all Ethernet ports and the wireless interface are bridged together. Wired/Wireless interface has the same IP address space with its top mesh. DHCP Server function is disabled and WizFi630 does not assign an IP. Wireless (LAN Port included) sending periodic Broadcast Packet to Station and maintains a connection with Station.

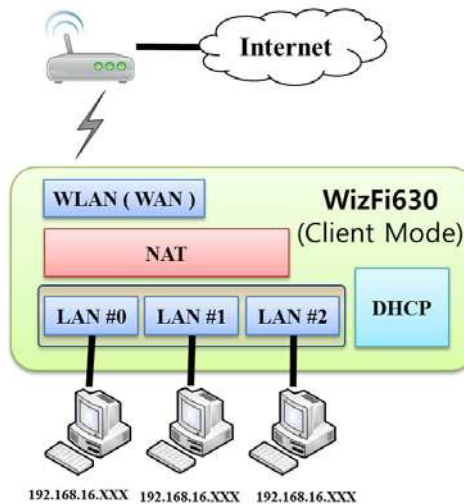


## 2.1.2. Gateway



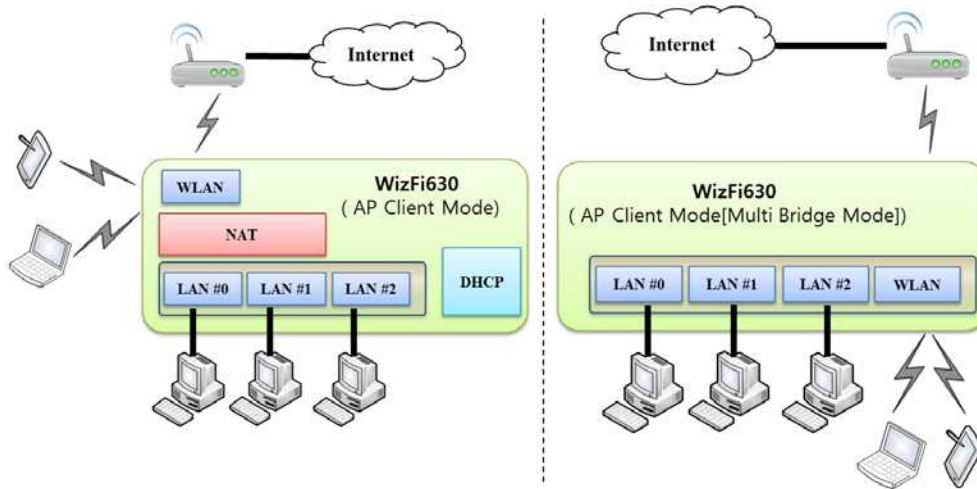
When operating in router mode, interfaces are separated into WAN I/F (Top Internet Business Network), LAN I/F (Sub Private Network: 192.168.16.xxx), and Wireless I/F (Sub Private Network: 192.168.16.xxx). Port # 0 will be assigned to the WAN Port. WizFi630 periodically sends Broadcast Packet to Sub-LAN (LAN Port included) and maintains connection with Station.

## 2.1.3. Client (Station)



Wireless I/F is assigned as WAN Port and all Ethernet Ports are bound to LAN Port. Set the profile and the WizFi630 is automatically connected to the AP when re-booting in the future. Devices that are connected through the LAN port are assigned a private IP. WizFi630 periodically sends PING Packet to AP Gateway and maintains connection with AP.

## 2.1.4. AP-Client Mode



Wireless I/F is assigned as WAN Port and all Ethernet Ports are bound to LAN Port. This mode is similar to Station mode, however the difference is that the Wireless I/F will operate as client with AP simultaneously. WizFi630 periodically sends Broadcast Packet to Sub-LAN (LAN Port included) and maintains connection with Station.

## 2.1.5. Ad-hoc Mode

This mode is similar to Gateway mode. The Wireless I/F operates as ad-hoc and connects to Station Point-to-Point. There is no communication between the LAN Port and Wireless I/F (ad-hoc).

WAN ↔ ad-hoc: OK

WAN ↔ LAN: OK

ad-hoc ↔ ad-hoc: OK

ad-hoc ↔ LAN: No Communication

## 2.2. Menu List by Operation Mode

### 2.2.1. Access Point (Bridge) Mode

Menu	Detailed Menu	Description ( Link )	List Number
Internet Setting	System IP	<a href="#">Internet connection setting</a>	2.3.1
	LAN	<a href="#">Local network setting</a>	2.3.2
	DHCP Clients	<a href="#">DHCP Client Information</a>	2.3.3
	VPN Config	<a href="#">VPN setting</a>	2.3.4
	QoS(802.1p)	<a href="#">QoS(802.1p) Setting</a>	2.3.6
Wireless Setting	Basic	<a href="#">Basic settings</a>	2.4.1
	Advanced	<a href="#">Advanced Wireless Settings ( AP Mode )</a>	2.4.2.1
	Security	<a href="#">Wireless Security setting</a>	2.4.3
	WDS	<a href="#">WDS Setting</a>	2.4.4
	WPS	<a href="#">WPS Setting ( AP Mode )</a>	2.4.5.1
	Station List	<a href="#">Wireless network status</a>	2.4.6
	Packet Statistics	<a href="#">AP Wireless Statistics ( AP Mode )</a>	2.4.7.1
Serial Setting	Serial Port #1	<a href="#">Serial to LAN(Wired and Wireless)</a>	2.5
	Serial Port #2		
Managements	System Mgmt	<a href="#">System Management</a>	2.7.1
	Firmware Mgmt	<a href="#">Firmware</a>	2.7.2
	Config Mgmt	<a href="#">Config Settings</a>	2.7.3
	Port Mgmt	<a href="#">Port Setting</a>	2.7.4
	Packet Statistics	<a href="#">Packet Statistics</a>	2.7.5
	System Status	<a href="#">System Status</a>	2.7.6
	System Log	<a href="#">System Log</a>	2.7.7

## 2.2.2. Gateway (Router) Mode

Menu	Detailed Menu	Description ( Link )	List Number
Internet Setting	WAN	<a href="#">Internet connection setting</a>	2.3.1
	LAN	<a href="#">Local network setting</a>	2.3.2
	DHCP Clients	<a href="#">DHCP Client Information</a>	2.3.3
	VPN Config	<a href="#">VPN setting</a>	2.3.4
	Routing	<a href="#">Static Routing Setting</a>	2.3.5
	Qos(802.1p)	<a href="#">QoS(802.1p) Setting</a>	2.3.6
	VLAN(802.1q)	<a href="#">VLAN(802.1q)</a>	2.3.7
Wireless Setting	Basic	<a href="#">Basic settings</a>	2.4.1
	Advanced	<a href="#">Advanced Wireless Settings ( AP Mode )</a>	2.4.2.1
	Security	<a href="#">Wireless Security setting</a>	2.4.3
	WDS	<a href="#">WDS Setting</a>	2.4.4
	WPS	<a href="#">WPS Setting ( AP Mode )</a>	2.4.5.1
	Station List	<a href="#">Wireless network status</a>	2.4.6
	Packet Statistics	<a href="#">AP Wireless Statistics ( AP Mode )</a>	2.4.7.1
Serial Setting	Serial Port #1	<a href="#">Serial to LAN(Wired and Wireless)</a>	2.5
	Serial Port #2		
Firewall	DMZ	<a href="#">DMZ</a>	2.6.1
	Port Forwarding	<a href="#">Port forwarding</a>	2.6.2
	Packet Filtering	<a href="#">Packet filtering</a>	2.6.3
	Contents Filtering	<a href="#">Contents filtering</a>	2.6.4
	System Security	<a href="#">System Security</a>	2.6.5
Managements	System Mgmt	<a href="#">System Management</a>	2.7.1
	Firmware Mgmt	<a href="#">Firmware</a>	2.7.2
	Config Mgmt	<a href="#">Config Settings</a>	2.7.3
	Port Mgmt	<a href="#">Port Setting</a>	2.7.4
	Packet Statistics	<a href="#">Packet Statistics</a>	2.7.5
	System Status	<a href="#">System Status</a>	2.7.6
	System Log	<a href="#">System Log</a>	2.7.7

## 2.2.3. Client (Station) Mode

- ◆ WizFi630 works as a Wi-Fi client(station) which is always paired with a Wi-Fi AP.
- ◆ Users can take Client Mode as an opposite of Gateway Mode

Menu	Detailed Menu	Description ( Link )	List Number
Internet Setting	WAN	<a href="#">Internet connection setting</a>	2.3.1
	LAN	<a href="#">Local network setting</a>	2.3.2
	DHCP Clients	<a href="#">DHCP Client Information</a>	2.3.3
	VPN Config	<a href="#">VPN setting</a>	2.3.4
	Routing	<a href="#">Static Routing Setting</a>	2.3.5
	QoS(802.1p)	<a href="#">QoS(802.1p) Setting</a>	2.3.6
	VLAN(802.1q)	<a href="#">VLAN(802.1q)</a>	2.3.7
Wireless Setting	Profile	<a href="#">Profile</a>	2.4.9
	Link Status	<a href="#">Link Status</a>	2.4.10
	Site Survey	<a href="#">Site Survey</a>	2.4.11
	Packet Statistics	<a href="#">AP Wireless Statistics ( Client Mode )</a>	2.4.7.2
	Advance	<a href="#">Advanced Wireless Settings(Client Mode)</a>	2.4.2.2
	QoS	<a href="#">Station QoS/DLS(Direct Link Setup) Configurations</a>	2.4.8
	WPS	<a href="#">WPS Settings ( Client Mode )</a>	2.4.5.2
Serial Setting	Serial Port #1	<a href="#">Serial to LAN(Wired and Wireless)</a>	2.5
	Serial Port #2		
Firewall	DMZ	<a href="#">DMZ</a>	2.6.1
	Port Forwarding	<a href="#">Port forwarding</a>	2.6.2
	Packet Filtering	<a href="#">Packet filtering</a>	2.6.3
	Contents Filtering	<a href="#">Contents filtering</a>	2.6.4
	System Security	<a href="#">System Security</a>	2.6.5
Managements	System Mgmt	<a href="#">System Management</a>	2.7.1
	Firmware Mgmt	<a href="#">Firmware</a>	2.7.2
	Config Mgmt	<a href="#">Config Settings</a>	2.7.3
	Port Mgmt	<a href="#">Port Setting</a>	2.7.4
	Packet Statistics	<a href="#">Packet Statistics</a>	2.7.5
	System Status	<a href="#">System Status</a>	2.7.6
	System Log	<a href="#">System Log</a>	2.7.7

## 2.2.4. AP-Client Mode

- ◆ AP-Client Mode Settings are very similar to the Gateway Mode Settings.
- ◆ The table below shows the added features of AP-Client mode.
- ◆ One module can operate as both AP and Station.
- ◆ The wireless module connects to a different AP and functions as WAN port.
- ◆ The channel of WizFi630 must be identical to the channel of AP to be connected
- ◆ Support wireless bridge.

Menu	Detailed Menu	Description ( Link )	List Number
Internet Setting	WAN	<a href="#">Internet connection setting</a>	2.3.1
	LAN	<a href="#">Local network setting</a>	2.3.2
	DHCP Clients	<a href="#">DHCP Client Information</a>	2.3.3
	VPN Config	<a href="#">VPN setting</a>	2.3.4
	Routing	<a href="#">Static Routing Setting</a>	2.3.5
	Qos(802.1p)	<a href="#">QoS(802.1p) Setting</a>	2.3.6
Wireless Setting	Basic	<a href="#">Basic settings</a>	2.4.1
	Advanced	<a href="#">Advanced Wireless Settings ( AP Mode )</a>	2.4.2.1
	Security	<a href="#">Wireless Security setting</a>	2.4.3
	WDS	<a href="#">WDS Setting</a>	2.4.4
	WPS	<a href="#">WPS Setting ( AP Mode )</a>	2.4.5.1
	WIFI Multi Bridge	<a href="#">WIFI Multi-Bridge settings</a>	2.4.12
	Station List	<a href="#">Wireless network status</a>	2.4.6
	Packet Statistics	<a href="#">AP Wireless Statistics ( AP Mode )</a>	2.4.7.1
Serial Setting	Serial Port #1	<a href="#">Serial to LAN(Wired and Wireless)</a>	2.5
	Serial Port #2		
Firewall	DMZ	<a href="#">DMZ</a>	2.6.1
	Port Forwarding	<a href="#">Port forwarding</a>	2.6.2
	Packet Filtering	<a href="#">Packet filtering</a>	2.6.3
	Contents Filtering	<a href="#">Contents filtering</a>	2.6.4
	System Security	<a href="#">System Security</a>	2.6.5
Managements	System Mgmt	<a href="#">System Management</a>	2.7.1
	Firmware Mgmt	<a href="#">Firmware</a>	2.7.2
	Config Mgmt	<a href="#">Config Settings</a>	2.7.3
	Port Mgmt	<a href="#">Port Setting</a>	2.7.4
	Packet Statistics	<a href="#">Packet Statistics</a>	2.7.5



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	System Status	<a href="#">System Status</a>	2.7.6
	System Log	<a href="#">System Log</a>	2.7.7

## 2.2.5. Ad-hoc Mode

- ◆ Settings for ad-hoc mode are almost the same as settings for Client (Station) Mode as previously shown.
- ◆ The difference with Client mode is that Client mode is used to connect AP.
- ◆ Client Mode connects to AP, whereas ad-hoc Mode connects with stations that use the same SSID.
- ◆ Both 1:1 connection and 1:N connection are possible
- ◆ In case of 1:N, N is possible up to 255

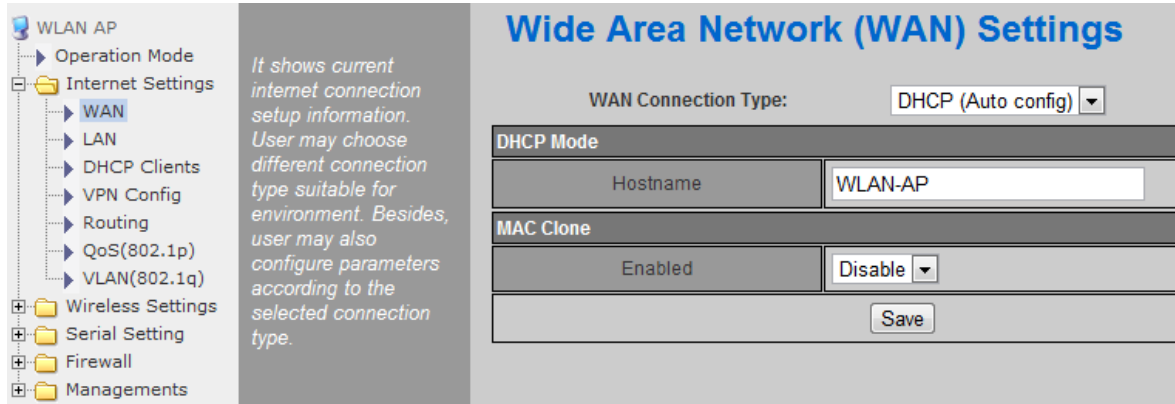
Menu	Detailed Menu	Description ( Link )	List Number
Internet Setting	WAN	<a href="#">Internet connection setting</a>	2.3.1
	LAN	<a href="#">Local network setting</a>	2.3.2
	DHCP Clients	<a href="#">DHCP Client Information</a>	2.3.3
	VPN Config	<a href="#">VPN setting</a>	2.3.4
	Routing	<a href="#">Static Routing Setting</a>	2.3.5
	Qos(802.1p)	<a href="#">QoS(802.1p) Setting</a>	2.3.6
Wireless Setting	Profile	<a href="#">Profile</a>	2.4.9
	Link Status	<a href="#">Link Status</a>	2.4.10
	Site Survey	<a href="#">Site Survey</a>	2.4.11
	Packet Statistics	<a href="#">AP Wireless Statistics ( Client Mode )</a>	2.4.7.2
	Advance	<a href="#">Advanced Wireless Settings(Client Mode)</a>	2.4.2.2
	QoS	<a href="#">Station QoS/DLS(Direct Link Setup) Configurations</a>	2.4.8
	WPS	<a href="#">WPS Settings ( Client Mode )</a>	2.4.5.2
Serial Setting	Serial Port #1	<a href="#">Serial to LAN(Wired and Wireless)</a>	2.5
	Serial Port #2		
Firewall	DMZ	<a href="#">DMZ</a>	2.6.1
	Port Forwarding	<a href="#">Port forwarding</a>	2.6.2
	Packet Filtering	<a href="#">Packet filtering</a>	2.6.3
	Contents Filtering	<a href="#">Contents filtering</a>	2.6.4
	System Security	<a href="#">System Security</a>	2.6.5
Managements	System Mgmt	<a href="#">System Management</a>	2.7.1
	Firmware Mgmt	<a href="#">Firmware</a>	2.7.2
	Config Mgmt	<a href="#">Config Settings</a>	2.7.3
	Port Mgmt	<a href="#">Port Setting</a>	2.7.4
	Packet Statistics	<a href="#">Packet Statistics</a>	2.7.5
	System Status	<a href="#">System Status</a>	2.7.6

	System Log	<a href="#">System Log</a>	2.7.7
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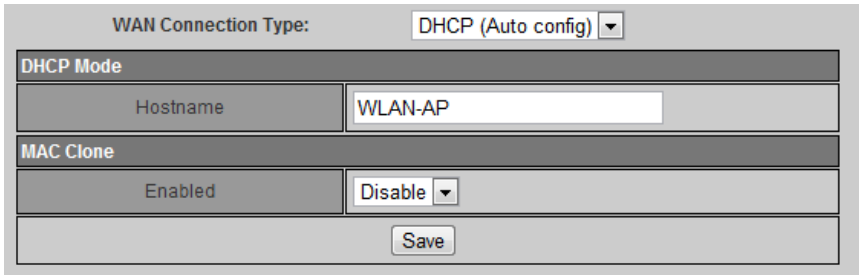
## 2.3. Internet Setting

### 2.3.1. Internet connection setting

- ◆ Select the internet service type and WizFi630 can connect to the internet
- ◆ If users would like access to Internet, Gateway Mode should be selected.



Type	Description
<b>WAN Connection Type</b>	Select the communication ways for Internet's connection <ul style="list-style-type: none"> <li>- Static(Fixed IP)</li> <li>- DHCP (Auto config)</li> <li>- PPPoE</li> </ul>
<b>Host Name</b>	Settings about module's host name
<b>Mac Clone</b>	Some ISPs require that you register a MAC address. Users can directly enter MAC address or use the MAC Clone function

Type	Description
<b>DHCP(Auto config)</b>	User should choose DHCP Mode when the user connects to the internet service such as FTTH, cable modems, VDSL, or IP-ADSL 
<b>Static(Fixed IP)</b>	Static IP setting window. If user receives static IP from ISP, user should set the Fixed IP

	<div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p style="text-align: right; margin: 0;">WAN Connection Type: <span style="border: 1px solid #ccc; padding: 2px;">STATIC (fixed IP)</span> ▼</p> <p><b>Static Mode</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid #ccc; padding: 2px;">IP Address</td><td style="border: 1px solid #ccc; padding: 2px;">192.168.123.70</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Subnet Mask</td><td style="border: 1px solid #ccc; padding: 2px;">255.255.255.0</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Default Gateway</td><td style="border: 1px solid #ccc; padding: 2px;">192.168.123.254</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Primary DNS Server</td><td style="border: 1px solid #ccc; padding: 2px;">61.41.153.2</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Secondary DNS Server</td><td style="border: 1px solid #ccc; padding: 2px;">203.248.252.2</td></tr> </table> <p><b>MAC Clone</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid #ccc; padding: 2px;">Enabled</td><td style="border: 1px solid #ccc; padding: 2px;">Disable ▼</td></tr> </table> <p style="text-align: center; margin-top: 5px;"><input type="button" value="Save"/></p> </div> <p style="margin-top: 10px;">Input the network information that got from ISP (such as IP, Subnet, Gateway, DNS)</p>	IP Address	192.168.123.70	Subnet Mask	255.255.255.0	Default Gateway	192.168.123.254	Primary DNS Server	61.41.153.2	Secondary DNS Server	203.248.252.2	Enabled	Disable ▼
IP Address	192.168.123.70												
Subnet Mask	255.255.255.0												
Default Gateway	192.168.123.254												
Primary DNS Server	61.41.153.2												
Secondary DNS Server	203.248.252.2												
Enabled	Disable ▼												
<b>PPPoE(ADSL)</b>	<div style="border: 1px solid #ccc; padding: 5px; background-color: #f9f9f9;"> <p style="text-align: right; margin: 0;">WAN Connection Type: <span style="border: 1px solid #ccc; padding: 2px;">PPPoE (ADSL)</span> ▼</p> <p><b>PPPoE Mode</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid #ccc; padding: 2px;">User Name</td><td style="border: 1px solid #ccc; padding: 2px;">pppoe_user</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Password</td><td style="border: 1px solid #ccc; padding: 2px;">.....</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Verify Password</td><td style="border: 1px solid #ccc; padding: 2px;">.....</td></tr> <tr><td style="border: 1px solid #ccc; padding: 2px;">Operation Mode</td><td style="border: 1px solid #ccc; padding: 2px;">Keep Alive ▼ Keep Alive Mode: Redial Period <span style="border: 1px solid #ccc; padding: 2px;">60</span> seconds On demand Mode: Idle Time <span style="border: 1px solid #ccc; padding: 2px;">5</span> minutes</td></tr> </table> <p><b>MAC Clone</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid #ccc; padding: 2px;">Enabled</td><td style="border: 1px solid #ccc; padding: 2px;">Disable ▼</td></tr> </table> <p style="text-align: center; margin-top: 5px;"><input type="button" value="Save"/></p> </div> <p style="margin-top: 10px;">-. User Name: Setting the User Name received from ISP -. Password: Password assigned by ISP -. Operation Mode: This mode is used for re-connecting when connection is bad</p>	User Name	pppoe_user	Password	.....	Verify Password	.....	Operation Mode	Keep Alive ▼ Keep Alive Mode: Redial Period <span style="border: 1px solid #ccc; padding: 2px;">60</span> seconds On demand Mode: Idle Time <span style="border: 1px solid #ccc; padding: 2px;">5</span> minutes	Enabled	Disable ▼		
User Name	pppoe_user												
Password	.....												
Verify Password	.....												
Operation Mode	Keep Alive ▼ Keep Alive Mode: Redial Period <span style="border: 1px solid #ccc; padding: 2px;">60</span> seconds On demand Mode: Idle Time <span style="border: 1px solid #ccc; padding: 2px;">5</span> minutes												
Enabled	Disable ▼												

## 2.3.2. Local network setting

- ◆ WizFi630 internal IP setting, DHCP server setting and DHCP.

WLAN AP

- ▶ Operation Mode
- ▶ Internet Settings
  - ▶ WAN
  - ▶ LAN
  - ▶ DHCP Clients
  - ▶ VPN Config
  - ▶ Routing
  - ▶ QoS(802.1p)
  - ▶ VLAN(802.1q)
- ▶ Wireless Settings
- ▶ Serial Setting
- ▶ Firewall
- ▶ Managements

*It show local networking information and user can setup the local networking function for user's network environments.*

### Local Area Network (LAN) Settings

LAN Setup	
IP Address	<input type="text" value="192.168.16.254"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
MAC Address	00:50:38:08:38:B8
DHCP Server	Enable ▾
Start IP Address	<input type="text" value="192.168.16.11"/>
End IP Address	<input type="text" value="192.168.16.50"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Primary DNS Server	<input type="text" value="8.8.8.8"/>
Secondary DNS Server	<input type="text" value="168.126.63.1"/>
Lease Time	<input type="text" value="3600"/> sec(60-86400, default:3600)
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
Statically Assigned	MAC: <input type="text"/> IP: <input type="text"/>
IGMP Proxy	Enable ▾ <input type="button" value="Group List"/>
DNS Proxy	Disable ▾
<input type="button" value="Save"/>	

Type	Description
<b>IP Address</b>	Enter the module's IP. (Default Value : 192.168.16.254)
<b>Subnet Mask</b>	Enter the module's subnet mask.
<b>MAC Address</b>	MAC Address of module's LAN port (Wireless included). (Read Only)
<b>DHCP Server</b>	Decide whether the module's DHCP server will be used.
<b>Start IP Address</b>	Set the start IP address that will be assigned from the DHCP server
<b>End IP Address</b>	Set the end IP address that will be assigned from the DHCP server.
<b>Subnet Mask</b>	Enter the value of subnet mask.
<b>Primary DNS Server</b>	Enter the primary DNS server address.
<b>Secondary DNS Server</b>	Enter the secondary DNS server address.
<b>Lease Time</b>	Enter the lease time when IP address is assigned.
<b>Statically Assigned</b>	Maximum of three IP can be statically assigned when IP address is assigned.