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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 150Mpbs
- 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

Туре	Description
Wireless Standard	IEEE802.11b/g/n
Frequency Range	USA: 2.400 ~ 2.483GHz Europe: 2.400 ~ 2.483GHz Japan: 2.400 ~ 2.497GHz China: 2.400 ~ 2.483GHz
Operating Channels	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)
Output Power (Tolerance(+/-1dBm)	802.11b: 17dBm@11Mbps 802.11g: 14dBm@54Mbps 802.11n: 14dBm@150Mbps/72Mbps
Receive Sensitivity	802.11b: -89dBm@11Mbps 802.11g: -74dBm@54Mbps 802.11n(40MHz): -66dBm@150Mbps 802.11n(20MHz): -70dBm@72Mbps
Data Rates	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
Modulation Type	11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 11b: DSS(CCK, DQPSK, DBPSK)
Antenna	u.FL (EVB : 1T1R 2dBi)

Table 1. Wi-Fi Specifications



1.3. Hardware Specifications

Туре	Description
Interface	Serial port : 2 EA LAN port : 3EA USB port : 1 USB Host Port (Reserved) U.FL(wireless)
Temperature	Operation: -10°C~70°C
Humidity	Operation: 10% to 90%, Non-Condensing Storage: 5% to 90%, Non-Condensing
Serial	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
Input Power	DC 3.3V / 1A
Power Consumption	Max : 3.3V / 600mA
Dimension	33mm X 43mm X 4.5mm
Weight	6g

Table 2. WizFi630 Module Specifications



1.4. Software Specifications

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

Table 3. SW Specifications

1.5. EVB Construction

1.5.1. Contents

Section	Qnt.	Contents
		WizFi630
WizFi630	lea	
		WizFi630-EVB
WizFi630- EVB	lea	

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

Table 4. WizFi630-EVB Contents



1.6. Block Diagram



Figure 1. WizFi630 Block Diagram

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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 Sever will be enabled.



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



192.168.16.XXX 192.168.16.XXX 192.168.16.XXX 192.168.16.XXX

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)



192.168.16.XXX 192.168.16.XXX 192.168.16.XXX

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.

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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 $\leftarrow \rightarrow$ ad-hoc: OK WAN $\leftarrow \rightarrow$ LAN: OK ad-hoc $\leftarrow \rightarrow$ ad-hoc: OK ad-hoc $\leftarrow \rightarrow$ LAN: No Communication



2.2. Menu List by Operation Mode

2.2.1. Access Point (Bridge) Mode

Menu	Detailed Menu	Description (Link)	List Number
	System IP	Internet connection setting	2.3.1
To to up a t	LAN	Local network setting	2.3.2
Internet	DHCP Clients	DHCP Client Information	2.3.3
Setting	VPN Config	VPN setting	2.3.4
	QoS(802.1p)	QoS(802.1p) Setting	2.3.6
	Basic	Basic settings	2.4.1
	Advanced	Advanced Wireless Settings (AP Mode)	2.4.2.1
	Security	Wireless Security setting	2.4.3
Vireless	WDS	WDS Setting	2.4.4
Setting	WPS	WPS Setting (AP Mode)	2.4.5.1
	Station List	Wireless network status	2.4.6
	Packet Statistics	AP Wireless Statistics (AP Mode)	2.4.7.1
Serial	Serial Port #1		25
Setting	Serial Port #2	Senar to LAN(Wired and Wireless)	2.5
	System Mgmt	System Management	2.7.1
	Firmware Mgmt	Firmware	2.7.2
	Config Mgmt	Config Settings	2.7.3
Managements	Port Mgmt	Port Setting	2.7.4
	Packet Statistics	Packet Statistics	2.7.5
	System Status	System Status	2.7.6
	System Log	System Log	2.7.7

2.2.2. Gateway (Router) Mode

Menu	Detailed Menu	Description (Link)	List Number
	WAN	Internet connection setting	2.3.1
	LAN	Local network setting	2.3.2
.	DHCP Clients	DHCP Client Information	2.3.3
Internet	VPN Config	VPN setting	2.3.4
Setting	Routing	Static Routing Setting	2.3.5
	Qos(802.1p)	QoS(802.1p) Setting	2.3.6
	VLAN(802.1q)	<u>VLAN(802.1p)</u>	2.3.7
	Basic	Basic settings	2.4.1
	Advanced	Advanced Wireless Settings (AP Mode)	2.4.2.1
	Security	Wireless Security setting	2.4.3
Wireless Catting	WDS	WDS Setting	2.4.4
Setting	WPS	WPS Setting (AP Mode)	2.4.5.1
	Station List	Wireless network status	2.4.6
	Packet Statistics	AP Wireless Statistics (AP Mode)	2.4.7.1
Serial	Serial Port #1	Coviel to LANI/A/ived and M/ivelage)	25
Setting	Serial Port #2	Serial to LAN(Wired and Wireless)	2.5
	DMZ	DMZ	2.6.1
	Port Forwarding	Port forwarding	2.6.2
Firewall	Packet Filtering	Packet filtering	2.6.3
Filewali	Contents Filtering	Contents filtering	2.6.4
	System Security	System Security	2.6.5
	System Mgmt	System Management	2.7.1
	Firmware Mgmt	Firmware	2.7.2
	Config Mgmt	Config Settings	2.7.3
Managements	Port Mgmt	Port Setting	2.7.4
	Packet Statistics	Packet Statistics	2.7.5
	System Status	System Status	2.7.6
	System Log	System Log	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
	WAN	Internet connection setting	2.3.1
	LAN	Local network setting	2.3.2
Internet	DHCP Clients	DHCP Client Information	2.3.3
Sotting	VPN Config	VPN setting	2.3.4
Setting	Routing	Static Routing Setting	2.3.5
	Qos(802.1p)	QoS(802.1p) Setting	2.3.6
	VLAN(802.1q)	<u>VLAN(802.1p)</u>	2.3.7
	Profile	Profile	2.4.9
	Link Status	Link Status	2.4.10
	Site Survey	Site Survey	2.4.11
Wireless	Packet Statistics	AP Wireless Statistics (Client Mode)	2.4.7.2
Setting	Advance	Advanced Wireless Settings(Client Mode)	2.4.2.2
	0.05	Station QoS/DLS(Direct Link Setup)	2.4.8
	Q03	Configurations	
	WPS	WPS Settings (Client Mode)	2.4.5.2
Serial	Serial Port #1	Serial to LAN(Wired and Wireless)	25
Setting	Serial Port #2		2.5
	DMZ	DMZ	2.6.1
	Port Forwarding	Port forwarding	2.6.2
Firewall	Packet Filtering	Packet filtering	2.6.3
Thewan	Contents	Contents filtering	2.6.4
	Filtering		2.6.5
	System Security	System Security	2.6.5
	System Mgmt	System Management	2.7.1
	Firmware Mgmt	Firmware	2.7.2
	Config Mgmt	Config Settings	2.7.3
Managements	Port Mgmt	Port Setting	2.7.4
	Packet Statistics	Packet Statistics	2.7.5
	System Status	System Status	2.7.6
	System Log	System Log	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
	WAN	Internet connection setting	2.3.1
	LAN	Local network setting	2.3.2
Internet	DHCP Clients	DHCP Client Information	2.3.3
Setting	VPN Config	VPN setting	2.3.4
	Routing	Static Routing Setting	2.3.5
	Qos(802.1p)	QoS(802.1p) Setting	2.3.6
	Basic	Basic settings	2.4.1
	Advanced	Advanced Wireless Settings (AP Mode)	2.4.2.1
	Security	Wireless Security setting	2.4.3
Wireless	WDS	WDS Setting	2.4.4
Setting	WPS	WPS Setting (AP Mode)	2.4.5.1
	WIFI Multi Bridge	WIFI Multi-Bridge settings	2.4.12
	Station List	Wireless network status	2.4.6
	Packet Statistics	AP Wireless Statistics (AP Mode)	2.4.7.1
Serial	Serial Port #1		25
Setting	Serial Port #2	Serial to LAN(WIRE and WIREless)	2.5
	DMZ	DMZ	2.6.1
	Port Forwarding	Port forwarding	2.6.2
Firewall	Packet Filtering	Packet filtering	2.6.3
	Contents Filtering	Contents filtering	2.6.4
	System Security	System Security	2.6.5
	System Mgmt	System Management	2.7.1
Managements	Firmware Mgmt	Firmware	2.7.2
	Config Mgmt	Config Settings	2.7.3
	Port Mgmt	Port Setting	2.7.4
	Packet Statistics	Packet Statistics	2.7.5



System Status	System Status	2.7.6
System Log	System Log	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
	WAN	Internet connection setting	2.3.1
	LAN	Local network setting	2.3.2
Internet	DHCP Clients	DHCP Client Information	2.3.3
Setting	VPN Config	VPN setting	2.3.4
	Routing	Static Routing Setting	2.3.5
	Qos(802.1p)	QoS(802.1p) Setting	2.3.6
	Profile	Profile	2.4.9
	Link Status	Link Status	2.4.10
\A (inclosed	Site Survey	Site Survey	2.4.11
Sotting	Packet Statistics	AP Wireless Statistics (Client Mode)	2.4.7.2
Setting	Advance	Advanced Wireless Settings(Client Mode)	2.4.2.2
	QoS	Station QoS/DLS(Direct Link Setup) Configurations	2.4.8
	WPS	WPS Settings (Client Mode)	2.4.5.2
Serial	Serial Port #1	Serial to LANIANizad and Mizalasa)	25
Setting	Serial Port #2	Senar to LAN(WIRED and WIREless)	2.5
	DMZ	DMZ	2.6.1
	Port Forwarding	Port forwarding	2.6.2
Firewall	Packet Filtering	Packet filtering	2.6.3
	Contents Filtering	Contents filtering	2.6.4
	System Security	System Security	2.6.5
	System Mgmt	System Management	2.7.1
Managements	Firmware Mgmt	Firmware	2.7.2
	Config Mgmt	Config Settings	2.7.3
	Port Mgmt	Port Setting	2.7.4
	Packet Statistics	Packet Statistics	2.7.5
	System Status	System Status	2.7.6



System Log	System Log	2.7.7



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.

₩LAN AP Operation Mode	It shows current	Wide Area Network (WAN) Settings		
Internet Settings	internet connection setup information.	WAN Connection Type:	DHCP (Auto config)	
> LAN	User may choose	DHCP Mode		
DHCP Clients VPN Config	different connection type suitable for	Hostname	WLAN-AP	
> Routing	environment. Besides,	MAC Clone		
QoS(802.1p)	configure parameters	Enabled	Disable 💌	
	selected connection		Save	
	<i>iypo.</i>			

Туре	Description		
WAN Connection Type	Select the communication ways for Internet's connection - Static(Fixed IP) - DHCP (Auto config) - PPPoE		
Host Name	Settings about module's host name		
Mac Clone	Some ISPs require that you register a MAC address. Users can directly enter MAC address or use the MAC Clone function		

Туре	Description			
	User should choose DHCP Mode when the user connects to the internet service such as FTTH, cable modems, VDSL, or IP-ADSL			
	WAN Connection Type: DHCP (Auto config)			
	DHCP Mode			
DHCP(Auto	Hostname WLAN-AP			
config)	MAC Clone			
	Enabled Disable 💌			
	Save			
Static(Fixed IP)	Static IP setting window. If user receives static IP from ISP, user should set the Fixed IP			



	WAN Connection Type:			
	Static Mode			
	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		
	MAC Clone	7		
	Enabled	Disable 💌		
		Save		
	Input the network information that	t got from ISP		
	(such as IP, Subnet, Gateway, DNS			
	WAN Connection Type:	PPP₀E (ADSL) ▼		
	PPPoE Mode			
	User Name	pppoe_user		
	Password			
	Verify Password			
		Keep Alive		
PPPoE(ADSL)	Operation Mode	Keep Alive Mode: Redial Period 60 senconds		
		On demand Mode: Idle Time 5 minutes		
	MAC Clone			
	Enabled	Disable 💌		
		Save		
	User Name: Setting the User Na	ame received from ISP		
	Password: Password assigned by ISP			
	Operation Mode: This mode is used for re-connecting when connection is bad			



2.3.2. Local network setting

♦ WizFi630 internal IP setting, DHCP server setting and DHCP.

WLAN AP • Operation Mode • • • Internet Settings	It show local networking information	Local Area Netwo	ork (LAN) Settings
	and user can setup the local networking	IP Address	192.168.16.254
DHCP Clients	function for user's network environments.	Subnet Mask	255.255.255.0
> Routing		MAC Address	00:50:38:08:38:B8
VLAN(802.1q)		DHCP Server	Enable -
Wireless Settings Image: Control		Start IP Address	192.168.16.11
		End IP Address	192.168.16.50
_		Subnet Mask	255.255.255.0
		Primary DNS Server	8.8.8.8
		Secondary DNS Server	168.126.63.1
		Lease Time	3600 sec(60-86400, default:3600)
		Statically Assigned	MAC:
		Statically Assigned	MAC:
		Statically Assigned	MAC:
		IGMP Proxy	Enable Group List
		DNS Proxy	Disable -
			Save

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



2.3.3. DHCP Client Information

◆ The IP information that is assigned from the DHCP server is shown.

WLAN AP Operation Mode Internet Settings WAN MAN	It shows DHCP client	DHCP Client List				
DHCP clients	leaded ip address.	Hostname	MAC Address	IP Address	Expires in	
Routing			00:08:DC:15:00:D2	192.168.16.11	00:00:00	
🗄 🧰 Wireless Settings			00:08:DC:15:00:D1	192.168.16.12	00:00:00	
to Serial Setting			00:03:2A:16:B5:83	192.168.16.13	00:00:00	
Administration			00:17:F2:EA:0E:5B	192.168.16.15	00:00:00	
Management						

Туре	Description	
Host name	Client's host name is shown	
Mac Address	Client's MAC address is shown.	
IP Address	Client's IP address is shown.	
Expires in	The usable time of client's IP address is shown.	

2.3.4. VPN setting

This section will explain on VPN packet settings.

WLAN AP	It shows VPN	VPN Passthrough	
E G Internet Settings	passthrought	VPN Pass Through	
	configurations including: L2TP,	L2TP Passthrough	Disable 💌
DHCP Clients	IPSec, and PPTP passthrough.	IPSec Passthrough	Disable 💌
Routing		PPTP Passthrough	Disable 💌
VLAN(802.1q)			Save
Wireless Settings Serial Setting			
Firewall Managements			

Туре	Description
LOTE Docs through	Enable : VPN L2TP packet is passed through WAN.
LZTP Pass-through	Disable : VPN L2TP packet is not passed through WAN. (Default value)
IPSec Pass-through	Enable : VPN IPSec packet is passed through WAN.
	Disable : VPN IPSec packet is not passed through WAN. (Default value)
PPTP Pass-through	Enable : VPN PPTP packet is passed through WAN.
	Disable : VPN PPTP packet is not passed through WAN. (Default value)

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2.3.5. Static Routing Setting

- User can modify the routing table at static routing settings.
- We do not recommend any modification.

WLAN AP Operation Mode Internet Settings	add and delete static	St	tatic Routin	g Settings							
	routing table										
DHCP clients		Add	a routing rule								
WPN Config Routing		Des	tination	[
∃ 📋 Serial Setting		Ran	ge		Host 💌						
🗄 🧰 Firewall		Gate	eway	[
Administration		Inter	face	[LAN	•]	
Management		Con	nment	[
G Firmware Config Settings G Status G Statistics				1	Apply	Rese	t				
la oyotom tog											
		Curr	rent Routing table	in the system:							
		No.	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface	Commer
		1	255.255.255.255	255.255.255.255	5 0.0.0.0	5	0	0	0	WAN (apcli0)	
		2	192.168.16.0	255.255.255.0	0.0.0.0	1	0	0	0	LAN(br0)	
					Delete	Rese	et				

Туре	Description	
Destination	Enter the Target IP address or network address.	
Range	Select whether the routing table is HOST or NETWORK	
Netmask	f Range is NETWORK, enter subnet mask.	
Gateway	Enter the gateway address to be passed when communicating with target.	
Interface	Select whether the target is LAN or WAN.	



2.3.6. QoS(802.1p) Setting

• Settings for QoS / DLS in Station mode.

WLAN AP	Setup QoS(802.1p) per	QoS(802.1p) Setti	ngs
E G Internet Settings	Port	Port Configuration	
		Port #0:	0 Value:0-7 ; 0:low , 7:High
 DHCP Clients VPN Config 		Port #1:	0 Value:0-7 ; 0:low , 7:High
QoS(802.1p)		Port #2:	0 Value:0-7 ; 0:low , 7:High
VLAN(802.1q)		Port #3:	0 Value:0-7 ; 0:low , 7:High
Serial Setting Firewall		Port #4:	0 Value:0-7 ; 0:low , 7:High
⊕ 🔁 Managements		Port #5:	0 Value:0-7 ; 0:low , 7:High
		Port #6(WLAN):	0 Value:0-7 ; 0:low , 7:High
			Save

Туре	Description
Port #0 ~ Port#5	Set a QoS value from 0~7
Port #6(WLAN)	Set a QoS value from 0~7



2.3.7. VLAN(802.1p)

• Settings for VLAN ID value and Tag/Untag.

WLAN AP Operation Mode Setup VLAN	Setup VLAN(802.1q)	VLAN(802.1q) Set	tings	
WAN	per Port	Port Configuration	0	
LAN		Port No.	VLAN ID (1,3-4095)	Tagging
DHCP Clients		Port#0:	2	Untag 👻
Routing		Port#1:	1 Value:1,3-4095	Untag 💌
VLAN(802.1q)		Port #2:	1 Value:1,3-4095	Untag 💌
 Wireless Settings Serial Setting 		Port #3:	1 Value:1,3-4095	Untag 💌
⊡ Firewall ⊡ Managements		Port #4:	1 Value:1,3-4095	Untag 💌
		Port #5(RGMII):	1 Value:1,3-4095	Untag 💌
		Port #6(WLAN):	1 Value:1,3-4095	Untag 💌
			Save	

Туре	Description
VLANID	ID for connection with VLAN.
Tagging	Select to add information related to VLAN.



2.4. Wireless setting

2.4.1. Basic settings

• This chapter is about basic setting for wireless LAN.



Туре	Description			
Radio On/Off	Decide radio on/off of wireless AP function.			
Network Mode	11b/g/n mixed mode: 802.11b/g/n are supported. 11b/g mixed mode: 802.11b/g are supported. 11b only: only 802.11b is supported. 11g only: only 802.11g is supported. 11n only: only 802.11n is supported			
SSID	Enter the name of the wireless network.			
Broadcast Network Name	AP or Wireless network status can be checked by notifying the SSID to the wireless device. AP cannot be searched if this function is disabled.			
Frequency(Channel)	Select the channel of wireless network.			
Channel Bandwidth	Fix bandwidth channel to 20MHz. Use 40MHz as bandwidth in case connection with wireless station that supports 11n channel bonding			
Reverse Direction Grant(RDG)	The wireless performance can be improved using Reverse Direct Grant, 11n's RDG technology.			

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Туре	Description
Extension Channel	Setting for the other 20MHz area when channel bandwidth is set to 40MHz
HT TxStream	Setting for number of Tx antennas of 2T2R system.
HT RxStream	Setting for number of Rx antennas of 2T2R system.

2.4.2. Advanced Wireless Settings

2.4.2.1. Advanced Wireless Settings (AP Mode)

- Only works at the AP Mode, Gateway Mode, and AP-Client Mode
- ◆ This chapter is about higher-level setting for wireless LAN.

WLAN AP	Use the Advanced Setup page to make	Advanced Wireless Settings			
Internet Settings		Advanced Wireless			
Basic	the Wireless. Advanced Setup	TX Power	100 (range 1 - 100, default 100)		
Security	includes items that are	Tx Burst	● Enable ○ Disable		
WDS	not available from the Basic Setup page,	Packet Aggregate	● Enable ○ Disable		
Station List	such as Beacon	Short Slot	Enable Disable		
Packet Statistics	Power and PTS/Fragment	Short Preamble	O Enable 🖲 Disable		
B - Firewall Thre B - Managements	Threshold.	RTS Threshold	2347 (range 1 - 2347, default 2347)		
		Fragment Threshold	2346 (range 256 - 2346, default 2346)		
		BG Protection Mode	Auto 💌		
		Beacon Interval	100 ms (range 20 - 999, default 100)		
		Country Code	KR (Republic of Korea) 💌		
		Wi-Fi Multimedia			
		WMM Capable	● Enable ○ Disable		
		DLS Capable	🛇 Enable 🖲 Disable		
			Save		

Туре	Description
Tx Power	Controls the range of wireless radio being sent. The range of wireless radio being sent
Tx Burst	The wireless speed can be maximized by enabling this function. However, it is recommended to disable this function for stable connection when numerous stations are connected together
Packet Aggregate	Numerous packets can be transmitted in one MPDU by enabling this function
Short Slot	The performance of wireless station connected to 11g can be improved by enabling Short Slot. However, it is recommended to disable Short Slot if there is a wireless station with unstable connection.
Short Preamble	If user enables Short Preamble, performance might slightly improve. However, the compatibility with wireless LAN card when connecting could decrease. It is recommended to disable Short Preamble for best compatibility.
RTS Threshold	When a data is larger than the threshold size, it can be sent RTS/CTS. Smaller threshold size may enable more stable wireless communication; however the maximum speed is lower. Smaller threshold size is recommended in case of more wireless stations are connected at the same time. The setting range is 1~2347.
Fragmentation	When a data is larger than the threshold size, it is fragmented and sent. Smaller



Threshold	threshold size may enable more stable wireless communication; however the maximum speed is lower. Smaller threshold size is recommended in case of many interruptions		
	from surrounding signals. The setting range is 256~2346.		
BG Protection	Setting for wireless communication when using both 11b and 11g LAN cards.		
Barrotection	Recommended for automatic settings in general.		
Peacon Interval	Controls the interval of sending beacon.		
beacon Interval	The setting range is 20~999 and 100ms is usually used.		
	Setting for country code.		
Country Code	Example: KR(Republic of Korea), US(United State), FCC(Europe), JP(Japan), FR(France),		
	ES(Spain)		
WMM			
(Wi-Fi Multimedia)	edia)		
DLS	Decide whether or not to use DLS (Direct Link Setup) function.		

2.4.2.2. Advanced Wireless Settings (Client Mode)

• Set Station advanced configurations in station mode.

WLAN AP	It shows the station's advanced settings and user can change the settings.	Station Advanced Configurations		
Internet Settings WAN			RADIO OFF	
LAN		Advance Configuration		
 DHCP Clients VPN Config 		Wireless Mode(Infra)	802.11 B/G/N mixed mode 💌	
Routing OoS(802.1p)		Country Region Code	11 B/G 1:CH1-13 💌	
Wireless Settings		B/G Protection	Auto 💌	
Link Status		Tx Burst	Л	
 Site Survey Packet Statistics 		HT Physical Mode		
Advance		HT	● MM ○ GF	
> QoS > WPS		BW	0 20 • Auto	
🗈 📋 Serial Setting		GI	🔿 Long 🔎 Auto	
		MCS	Auto 🗸	
		Tx Antenna		
		Rx Antenna		
		11n Configuration	Save	
		MPDI L Aggregation	🗆 enable	
		In DO Aggregation	O Manual O Auto	
		MPDU density	0 -	
		Aggregation MSDU(A-MSDU)	🗆 enable	
			Save	

Туре	Description	
	Enable / Disable wireless LAN	
KADIO OFF	User cannot use wireless LAN if user clicks RADIO OFF.	
Wireless Mode	Selects wireless mode.	
Country	Atry Code Selects the country / regional code. tection Setting for better wireless communication when both 11b and 11g LAN cards are used.	
Region Code		
B/G Protection		

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	We recommend Auto.	
HT	Select whether the PHY Mode of wireless to be Mixed Mode or GreenField Mode.	
BW Fix the channel bandwidth to 20MHz: 20MHz. 20/40MHz: Use 40MHz when wireless station that supports 11n channel bonding.		
GI	Long: 800nsec, short: 400nsec	
MCS	Controls link rate.	
Tx Antenna	Select number of Tx antenna in 2T2R system.	
Rx Antenna	Select number of Rx antenna in 2T2R system.	
MPDU	Aggregates multiple MPDU to a single MPDU	
Aggregation		
MPDU density	MPDU Variable Factor	
Aggregation	1	
MSDU	Aggregates multiple MPDU to a single MPDU.	
(A-MSDU))U)	



2.4.3. Wireless Security

◆ This chapter is about settings for wireless network security

WLAN AP	Setup the wireless security and encryption to prevent from unauthorized access and monitoring.	Wireless Security/Encryption Settings		
Internet Settings Wireless Settings Basic Advanced		Select SSID		
		SSID choice	WLAN-AP 💌	
Security		"WLAN-AP"		
WPS		Security Mode	Disable	
Station List			J	
Packet Statistics		Access Policy		
Firewall		Policy	Disable	
		Add a station Mac:		
			Save	

Туре	Description
SSID choice	If multiple SSID are in use, choose the corresponding SSID for security.
Security Mode	Select security mode.
Access Policy	Disable : Access Control function will be disabled Allow Listed : allows communication with listed MAC client. Reject Listed: blocks communication with listed MAC client.
Add a station MAC	Enter the client's MAC address for controlling.

2.4.3.1. Wireless Security setting

Authentication settings

"WLAN-AP"		
Security Mode	WPAPSKWPA2PSK -	
	Disable	
WPA	SHAREDWEP	
WPA Algorithms	WEPAUTO WPA WPA-PSK WPA2-PSK WPA2-PSK	IPAES
Pass Phrase		
Key Renewal Interval		14303)
Access Policy	WPA1WPA2 802.1X	



Туре	Description	
OPENWEP	All users are authorized.	
SHAREDWEP	Users only with correct network key are authorized.	
WEPAUTO	OPEN/SHARED Mode is selected automatically.	
WPA-PSK	WPA certified standard with improved security.	
WPA2-PSK	Improved WPA certified standard	
WPAPSKWPA2PSK	2PSK Both WPZ-PSK and WPZ2-PSK are supported.	
WPA	WPA certified standard including 802.1x.	
WPA2 Improved WPA certified standard.		
WPA1WPA2 Both WPA and WPA2 are supported.		
802.1x	D2.1x Radius authentication through WEP Key.	

2.4.3.2. Wireless Authentication Setting

Encryption	Туре	Description
None	OPEN	Encryption algorithm is not used.
WEP64	SHARED/	WEP encryption algorithm is used with 64bit key.
WEP128 WEPAUTO/802.1x	WEPAUTO/802.1x	WEP encryption algorithm is used with 128 bit key.
ТКІР	WPA/WPA2/	More complex encryption algorithm than WEP Is used.
AES	WPA-PSK/	New encryption algorithm is used.
TKIP/AES WPA1WPA2/ WPA1WPA2/ WPAPSKWPA2PSK	WPA2-PSK/ WPA1WPA2/ WPAPSKWPA2PSK	Support TKIP/AES simultaneously

2.4.3.2.1. WEP

- Enter key for WEP64 or WEP128 network.
- Use either character string or hex character when entering key.
- ◆ Select 1~4 for 'Default Key..
- Enter at least one WEP Key.
- The entered WEP key is used for connection from wireless terminal.

Wire Equivaler	ice Protection (WEP)		
Default Key		Key 1 👻	
WEP Keys	WEP Key 1:		Hex 👻
	WEP Key 2 :		Hex 👻
	WEP Key 3 :		Hex 👻
	WEP Key 4 :		Hex 👻



2.4.3.2.2. TKIP/AES authentication

• Enter at least 8 characters of character string for the network key value.

WPA		
WPA Algorithms O TKIP @ AES O TKIPAES		
Pass Phrase	12345678	
Key Renewal Interval	3600 seconds (0~4194303)	

2.4.3.2.3. Wireless 802.1x authentication

- Enter the value for linking with the Radius Server.
- The values related to the Radius Server are provided by the internet service company.

"'MI AN AD"		
Security Mode	802.1X	
802.1x WEP		
WEP	O Disable O Enable	
Radius Server		
IP Address		
Port	1812	
Shared Secret		
Session Timeout	0	
Idle Timeout		
Access Policy		
Policy	Disable	
Add a station Mac:		
	Save	



2.4.4. WDS(Wireless Distribution System) Setting

- Connection with different AP is possible with WDS (Wireless Distribution System) function.
- Maximum of four APs can connect through WDS function.
- ◆ 2 APs must use the same channel and authentication / encryption method

II.			
L	😼 WLAN AP		
L	🔤 Operation Mode		Wireless Distribution System
L	🗄 🔚 Internet Settings		
L	wan	Wireless Distribution	
I	🗟 LAN	System(WDS)	
L	🗟 DHCP clients		Wireless Distribution System/WDS)
L	🗟 VPN Config		Wireless Distribution System(WDS)
l	Routing		WDS Mode Disable 💌
L	🗄 😋 Wireless Settings		Disable
L	- 🗟 Basic		Apply Lazy Mode
L	Advanced		Bridge Mode
L	Security		
L	WDS		
l	WPS		

Туре	Description		
Disable	WDS function is not used. (Default disable)		
Lazy Mode	Do not register the MAC of AP to be connected. Connect the AP's MAC to the registered AP.		
	AP function is provided.		
	Register the MAC of AP to be connected.		
Bridge Mode	Connect the registered MAC to the AP.		
	AP function is not provided.		
	Register the MAC of AP to be connected.		
Repeater Mode	Connect the registered MAC to the AP.		
	AP function is provided.		
	(The performance of WDS is best in Repeater Mode.)		



2.4.5. WPS Setting

2.4.5.1. WPS Setting (AP Mode)

- ♦ Only work at the AP Mode, Gateway Mode and AP-Client Mode
- ◆ The WPS function enables easier wireless network setting.

WLAN AP Operation Mode ☐ Internet Settings Wireless Settings Wireless Settings Basic Advanced Advanced	Wi-Fi Protected S WPS Config WPS:	Setup Enable Save	
WDS WPS		WPS Summary	
> Station List		WPS Current Status:	Idle
Packet Statistics		WPS Configured:	No
Serial Setting Firewall		WPS SSID:	WLAN-AP
		WPS Auth Mode:	Open
		WPS Encryp Type:	None
		WPS Default Key Index:	1
		WPS Key(ASCII)	
		AP PIN:	05388080 Generate
			Reset OOB
		WPS Progress	
		WPS mode	
		PIN	
			Save
		WPS Status	
		WSC:idle	

Туре	Description			
WPS	Enable / Disable WPS.			
WPS Current Status	Shows whether WPS is used or not for the connection with station.			
WPS Configured	Shows whether WPS is configured or not.			
WPS SSID	Shows the SSID connected to the station.			
WPS Auth Mode	Shows the authentication used with WPS.			
WPS Encrypt Type	Shows the Encryption used with WPS.			
WPS Default Key Index	Shows the default key ID used with WPS.			
WPS Key(ASCII)	Shows the WPS Key.			
AP PIN	Shows the PIN value used when connecting to station.			
WPS Mode	Select PIN or PBC.			

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2.4.5.2. WPS Settings (Client Mode)

• WPS settings in Station Mode.

	WLAN G	ate	way Module	ə						
S WLAN AP → Operation Mode → Coperation Mode	It shows Wifi	WI-FI Protected Setup (STA)								
Wireless Settings Profile	User can setup	No.	SSID	BSSID	RSSI	Ch.	Auth.	Encrypt	Ver.	Status
Link Status	security easily by choosing PIN or PBC	C	damosys_ip604_work	00089FBE79FC	100%	1	OPEN	Not Use	1.0	Conf.
Site Survey	method to do Wi-Fi	0	zio	081074DA7F2C	0%	6	WPA2-PSK	AES	1.0	Conf.
Advance	Protected Setup.	Protected Setup.	WIZARD-AP	005038E0000C	100%	11	OPEN	Not Use	1.0	Conf.
⊕ Managements		RF E Prin Re Re Not	Band:2.4G/5G Inary Device Type:Unkr Ifresh Mode: Enrollee enew PIN S Status used	own∶1536,1266	PIN :	Start	PBC Sta	rt Can	cel	F

Туре	Description	
Refresh	Searches for WPS function activated AP.	
PIN Start	Attempts connection with AP using PIN value.	
PBC Start	Attempts connection with AP by virtually clicking the PBC button.	
Cancel	Cancel Cancels the AP connection attempt.	
Renew PIN	Renews the PIN value of WizFi630.	



2.4.6. Wireless network status

- ◆ The status of the station that is connected to WizFi630 is shown.
- The surrounding wireless AP's status are shown.

WLAN AP	It shows surrant	Statio	on List						
Wireless Settings Basic	station information								
Advanced	which associated to	wireless	Network	414	DOM Nime DO	lucol		OTDO	
Security Security WDS Station List Statistics	this AP nere.	MAC Addi	ess	AID	PSM MimoPS	MCS	SW SGI	SIRC	
🗄 📋 Serial Setting		Neighbor	ing Wireless Networl	ks					
⊡ • 🗀 Administration		Channel	SSID	BSSID	Security	Signal (%)	W- Mode	Туре	
		1		00:01:36:57:6b:3b	WPAPSK/TKIP	60	11b/g	In	
		1	myLGNet6B3E	00:01:36:57:6b:3c	WEP	60	11b/g	In	
		1	NESPOT	06:30:0d:59:19:d6	NONE	0	11b/g	In	
		1	QOOKnSHOW	00:30:0d:59:19:d6	WPA/TKIPAES	0	11b/g	In	
		2	myLGNet	00:02:a8:84:c5:b1	WEP	0	11b/g	In	
		3	iptime1004	00:08:9f:d9:ee:14	WEP	10	11b/g/n	In	
		6		00:01:36:25:1b:5e	WPAPSK/TKIP	0	11b/g	In	
		6	QOOKnSHOWbasic	00:25:a6:a3:e7:78	NONE	0	11b/g/n	In	
		6	KT_WLAN_5A45	00:30:0d:5a:a4:52	WPA1PSKWPA2PSK/TKIPAES	34	11b/g/n	In	
		6		00:02:a8:9e:67:84	WPAPSK/TKIP	0	11b/g	In	
		6	myLGNet	00:02:a8:9e:67:85	WEP	0	11b/g	In	
		6	KT_WLAN	00:25:a6:a3:e7:79	WEP	0	11b/g	In	
		6		02:30:0d:5a:a4:52	WPA1PSKWPA2PSK/TKIPAES	29	11b/g/n	In	
		6	QOOKnSHOW	00:25:a6:a3:e7:77	WPA1WPA2/TKIPAES	0	11b/g/n	In	
		6	myLGNet	00:01:36:25:1b:60	WEP	0	11b/g	In	
		7		00:08:9f:7c:c8:d8	WPAPSK/TKIP	0	11b/g	In	
		7	myLGNet	00:08:9f:7c:c8:d9	WEP	0	11b/g	In	
		7		00:40:5a:65:3b:78	WPAPSK/TKIP	5	11b/g/n	In	
		7	U+Net3B7B	00:40:5a:65:3b:79	WPA2PSK/AES	0	11b/g/n	In	
		7	Anyang_N704m	00:08:9f:4a:1e:88	WEP	0	11b/g/n	In	
		9	WIZARD-AP	00:08:9f:be:79:fc	NONE	100	11b/g/n	In	
		9	yjh	00:26:66:2c:a7:40	WPA1PSKWPA2PSK/AES	50	11b/g/n	In	
		11	3-WLAN-AP	00:50:38:12:ff:58	NONE	100	11b/g/n	In	
		11	2-WLAN-AP	00:50:38:12:ff:5e	NONE	100	11b/g/n	In	
		11	QOOKnSHOWbasic	00:25:a6:a2:2b:62	NONE	0	11b/g/n	In	
		11	WLAN-AP	00:50:38:12:ff:64	NONE	15	11b/g/n	In	

Туре	Description		
Channel	Channel information of AP		
SSID	SSID of AP		
BSSID	MAC address of AP		
Security	Encryption method of AP		
Signal	Signal strength with AP		
W-Mode	Wireless mode of AP		
Туре	Network Type of finding AP		
	In: Infrastructure, Ad: ad-hoc		

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2.4.7. AP Wireless Statistics

◆ The Statistics of wireless communication is shown.

2.4.7.1. AP Wireless Statistics (AP Mode)

♦ Only work at the AP Mode, Gateway Mode and AP-Client Mode

WLAN AP	it shows stations's	Wireless Data Statistics		
Internet Settings	wireless packet	Transmit Statistics		
Basic	Statistes.	Tx Success	34	
Advanced		Tx Retry Count	0 (0 %)	
Security		Tx Fail after retry	0	
		RTS Sucessfully Receive CTS	0	
WPS		RTS Fail To Receive CTS	0	
Packet Statistics		Receive Statistics		
🗉 🗀 Serial Setting		Frames Received Successfully	6259	
🗄 📋 Firewall		Frames Received With CRC Error	193 (2.99 %)	
		SNR		
		SNR	n/a, n/a	
			Reset Counters	

Туре	Description	
Tx Success	Number of successfully transmitted frames	
Tx Retry Count	Number of retransmitted frames	
Tx Fail after retry	after retry Number of failed frames	
RTS Successfully Receive CTS	Number of frames that successfully received CTS	
RTS Fail To Receive CTS Number of frames that failed to receive CTS		
Frames Receive Successfully	Number of frames successfully received	
Frames Received With CRC Error	Number of frames that failed due to CRC error	
SNR	Receiving signal strength	



2.4.7.2. AP Wireless Statistics (Client Mode)

• Station statistics shows the information of wireless data packet in station mode.



Туре	Description
Frames Transmitted Successfully	Number of frames successfully transmitted.
Frames Transmitted Successfully Without Retry	Number of frames successfully transmitted without a retry
Frames Transmitted Successfully After Retry(s)	Number of frames transmitted successfully after retry.
Frames Fail To Receive ACK After All Retries	Number of frames failed to receive ACK after all retries.
RTS Frames Successfully Receive CTS	Number of RTS frames that successfully received CTS
RTS Frames Fail To Receive CTS	Number of RTS frames failed to receive CTS.
Frames Received Successfully	Number of frames successfully received.
Frames Received With CRC Error	Number of frames received with CRC error.
Frames Dropped Due To Out-of-Resources	Number of frames dropped due to out of resources.
Duplicate Frames Received	Number of duplicate frames received.



2.4.8. Station QoS/DLS(Direct Link Setup) Configurations

◆ Set Station QoS / DLS configurations in station mode

WLAN AP	It shows current	Station QoS Conf	igurations
Internet Settings wireless Q	wireless Qos settings	Qos Configuration	
Profile	and Direct Lilk Status.	WMM	🗹 enable
Link Status		WMM Power Saving	🗆 enable
 Site Survey Packet Statistics 		PS Mode	AC_BE AC_BK AC_VI AC_VO
Advance QoS			Save
E 🔁 Serial Setting		Direct Link Setup	
		Direct Link Setup	enable
⊞ Managements		MAC Address	· · · · · · · · · · · · · · · · · · ·
		Timeout Value	sec
			Save
		DLS Status	
		MAC Address	Timeout
			Tear Down

Туре	Description
WMM(Wi-Fi Multimedia)	Enable WMM function or not.
WMM Power Saving	Enable Power Saving function or not.
Direct Link Setup	Enable Direct Link function or not. In order to use Direct Link function, the AP connected to WizFi630 and the Station to be connected must support Direct Link function.
MAC Address	Enter the MAC Address of the station to be connected using direct link function.
Timeout Value	Cancels the link if there are no traffic between stations for a period of time.



2.4.9. Profile

Shows the profile of the connected AP.

The profile information can be modified.

By using "Site Survey", it is very convenient to find and connect with an AP.

- ◆ Administration of maximum of two AP is possible after adding to profile.
- The module automatically connects to the active AP (selected AP) upon booting.

WLAN AP Operation Mode Internet Settings	Profile Operation : add/delete/edit/activate.	Station Profile Pofile List						
Profile		Select	Profile	SSID	Channel	Authentication	Encryption	Network Type
Link Status		۰ 🗸	PROF001	WIZARD- AP	Auto	OPEN	NONE	Infrastructure
Packet Statistics Advance QoS WPS Serial Setting Firewall Managements			Add	Delete	Edit	Activate		

Туре	Description
Profile	Profile Name
SSID	SSID of AP to be connected
Channel	Channel information of AP to be connected. Channel information is needed only when
Authentication Authentication method of AP to be connected.	
Encryption	Encryption method of AP to be connected.
Network Type	Select AP / ad-hoc.



2.4.10.Link Status

• Shows the link status between wireless LAN and AP.

	WLAN G	ateway Module				
WLAN AP Operation Mode Internet Settings		Station Link Status				
	WIFI link status. it is	Link Status				
Profile	seen at the client	Status	WIZARD-AP <> 00-50	-38-E0-00-0C		
Link Status	(station) mode.	Extra Info	Link is Up			
Site Survey		Channel	11 <> 2462000 KHz ;	Central Channel: 9		
Packet Statistics		Link Speed	Tx(Mbps) 135.0	Rx(Mbps) 1.0		
Advance		Throughput	Tx(Kbps) 5.0	Rx(Kbps) 58.9		
WPS		Link Quality	Good 92%			
🗉 🚞 Serial Setting		Signal Strength1	Good 90%			
🕀 🧰 Firewall		Signal Strength2	Weak 0%	E dDay format		
🗄 🛄 Managements		Signal Strength3	Weak 0%	1_ dBm format		
		Noise Level	Low 0%			
		HT	_			
		BW	40			
		GI	long			
		STBC	none			
		MCS	7			
		SNR0	26			
		SNR1	n/a			

Туре	Description	
Status	SSID and BSSID of connected AP.	
Extra Info	Link status.	
Channel	Channel information of connected AP.	
Link Speed	Link speed rate of connected AP.	
Throughput	Real performance through communication.	
Link Quality	Link quality of connected AP.	
Signal Strength	Signal strength of connected AP.	
Noise Level	Noise level of connected AP.	

• The HT section only appears when connected with 802.11n AP.

Туре	Description	
BW	Channel Bandwidth. 20MHz or 40MHz.	
GI	Guard Interval	
GI	Long: 800nsec, Short: 400nsec	
STBC	Supported only when value of MCS is 0-7.	
MCS	Shows link rate.	
SNR	Shows the receiving signal strength.	



2.4.11.Site Survey

- Site Survey searches for AP surrounding WizFi630.
- Select an AP and click the connect button (If the module is rebooted, the module will connect to the previous profile).
- Click "Add Profile" if user wishes to add to profile.

🗄 📋 Internet Settings		Site Sunvey									
E 🔁 Wireless Settings	survey information of APs nearby. User can choose one of these	Select	SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type		
Site Survey	APs connecting or adding it to profile	С	Semitron_AP	00:1d:7e:54:eb:8b	100%	11	Not Use	OPEN	In		
Packet Statistics	adding it to prome.	¢	WIZARD-AP	00:50:38:e0:00:0c	100%	11	Not Use	OPEN	In		
QoS		C	visitor	00:11:21:f8:f0:20	65%	2	WEP	Unknown	In		
WPS		С	Semi-AP-Anygate	00:1f:1f:41:db:24	60%	11	Not Use	OPEN	In		
⊞ - Serial Setting		С	WIZARD-AP-chi	00:50:38:12:45:00	50%	11	Not Use	OPEN	In		
		С	Semi_AP_DLink_24G	00:24:01:db:aa:ec	50%	6	AES	WPA2-PSK	In		
		С	WLANAP	00:50:38:12:45:01	50%	11	Not Use	OPEN	In		
		С	damosys_ip604_work	00:08:9f.be:79.fc	29%	1	Not Use	OPEN	In		
		С	802.1x	74:91:1a:ab:74:69	29%	1	AES	WPA2	In		
		C	ruckus	74:91:1a:2b:74:69	20%	1	AES	WPA2-PSK	In		
		C	McTiVia	e0:69:95:76:74:32	15%	1	Not Use	OPEN	In		
		С	kimkyong	00:08:9f:d9:fa:08	15%	11	Not Use	OPEN	In		
				C	UTIS-AUTH	0a:0b:6b:2b:ca:29	0%	7	AES	WPA; WPA2	In
		С	U+Net0E4B	00:40:5a:98:0e:49	0%	3	AES	WPA2-PSK	In		
		C	zio	08:10:74:da:7f:2c	0%	6	AES	WPA2-PSK	In		
		С	iptime	00:26:66:a8:24:dc	0%	11	Not Use	OPEN	In		

WLAN Gateway Module....

Туре	Description	
SSID	SSID of searched AP	
BSSID	Wireless MAC Address of searched AP.	
RSSI	Signal strength of searched AP.	
Channel	Channel of searched AP.	
Encryption	Encryption method of searched AP.	
Authentication	Authentication method of searched AP.	
Notwork Trees	Network type of searched AP.	
Network Type	In: Infrastructure, Ad: ad-hoc	
Connected	SSID of AP connected with WizFi630.	
Connect	Connects with AP.	
Rescan	Rescans for surrounding AP.	
Add Profile	Adds to profile.	



2.4.12.WIFI Multi-Bridge settings

• Set WI-FI Multi Bridge Mode in AP-Client mode.



Туре	Description		
	Select Gateway or Bridge Mode.		
Operation Mode	Wi-Fi is WAN: operates in Gateway Mode.		
	Multi-Bridge Mode: operates in Bridge Mode.		
SSID	SSID of AP to be connected.		
Frequency	Channel of AD to be connected		
(Channel)	Channel of AP to be connected.		
MAC Address	MAC Address of AP to be connected. (optional)		
Security	Select the same security option with AP to be connected.		



2.5. Serial to LAN(Wired and Wireless)

- Individual settings for serial #1 and serial #2 are possible.
- Set the serial parameters for serial to wireless (Ethernet) function.
- Set two channels (Main connection, Aux connection) for each serial port
- Setting management of Serial #1 and #2 (Main connection, Aux connection)



2.5.1. Main Connection settings

Туре	Description
Status	Enable checked : Serial to LAN is used.
Status	Enable un-check: Serial to LAN is not used.
	Protocol used in Serial to LAN communication
Protocol	-TCP
	-UDP
	Serial to LAN operation mode. (Client Mode recommended)
Mode	- Server : waits for connection.
Widde	- Client : connected to the remote server of WizFi630
	- Mixed : not recommended
Server IP	Enter the IP address for WizFi630 setting.
Server Port	Enter the port number for remote serial data server host PC.
Reconnect Interval	Interval of TCP reconnection.
	Connection Type of WizFi630's Serial LAN. (TCP Only)
Connection	System Bootup : connected to the remote server upon bootup.
connection	Serial Data In : once serial data comes in, connect to remote server.
	(end connection after inactive time)
Baud rate	Select the serial communication speed.
Databits	Select the databits.
Parity	Select the method for parity check.
Stopbits	Select the stopbits.
FlowControl	Select the method for flow control. (Option: none, Xon/Xoff, RTS/CTS)

2.5.2. Aux Connection Settings

Туре	Description
Status	Select whether to enable serial port or not.
Protocol	Protocol used in Serial to LAN communication.
Mode	Select Server or Client Mode.
Server IP	Enter the IP address for WizFi630 setting.
Server Port	Enter the port number for remote serial data server host PC.

2.5.3. Packing Condition (Incoming serial data packing condition)

Туре	Description			
Time	Data packing until the set time and then sent to server after the set time.			
Size	Data packing until the set size and then sent to the server.			
Character	Data packing until the set character and then sent to the server.			
Inactivity Time:	TCP/IP connection is discontinued if there is neither serial data nor network data during the set time.			
H/W CMD switch	Enable/Disable the H/W CMD switch pin. H/W CMD switch pin is the switch for sending commands from CPU to WizFi630.			

2.5.4. Ethernet Data Tagging Option

This option is used to help serial device to identify who is the received serial data's source; the received serial data comes from Main Port or Aux Port.

Туре	Description
Status	Enable or disable this option (Checked : Enable, Un-Check : Disable)
Main Port	Before sending data from Main port to serial port, WizFi630 added a TAG in the front of payload. For example: In-come LAN Data : "abcdegf" Output data to Serial Port : "!MAIN!abcdegf"
Aux Port	Before sending data from Aux port to serial port, WizFi630 added a TAG in the front of payload. For example: In-come LAN Data : "abcdegf" Output data to Serial Port : "!AUX!abcdegf"



2.6. Firewall settings

2.6.1. DMZ

- Enable/Disable DMZ function.
- ◆ A DMZ allows a single computer on your LAN to expose ALL of its unused ports to the Internet. When doing this, the exposed computer is no longer behind the firewall.
- ◆ Sometimes TCP/IP applications require very specialized IP configurations that are difficult to set up or not supported by your router. In this case, placing your computer in the DMZ is the only way to get the application working.



Туре	Description	
DMZ Settings	Disable/Enable DMZ	
DMZ IP Address	Input the IP address that you would like to expose all of its unused ports to the Internet	



2.6.2. Port forwarding

When a computer on the internet sends data to the external IP address of the router (WizFi630), the router (WizFi630) needs to know what to do with the data. Port Forwarding simply tells the WizFi630 which computer on the local area network to send the data to. When you have port forwarding rules set up, your router takes the data off of the external IP address:port number and sends that data to an internal IP address:port number. Port Forwarding rules are created per port. Thus, a rule set up for port 53 will only work for port 53.



Туре	Description	
Port Forwarding	Disable/Enable Port Forwarding	
IP Address	Internal IP address	
Service Port	External ports range	
Protocol	Supports TCP and UDP	
Internal Port	Internal port	

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2.6.3. Packet filtering

- ♦ WizFi630 can accept or block Internet packets according to pre-defined MAC or IP address
- First, please do the basic settings

	WLAN G	ateway Module
WLAN AP	it shows current mac/ip/port filtering information. User can change add and delete rules for special purpose. User can add maximum 32 rules	MAC/IP/Port iltering Settings
Internet Settings		Basic Settings
LAN DHCP Clients		MAC/IP/Port Filtering Disable -
VPN Config Routing QoS(802.1p)		Save
VLAN(802.1q)		
Basic		MAC/IP/Port Filter Settings
Security		Source MAC
-> WDS		Dest IP
Station List		Source IP
Packet Statistics Serial Setting		Protocol None -
Firewall		Dest Port Range
DMZ Port Forwarding		Source Port Range
Packet Filtering		Action Drop V
System Security		Comment
🗄 🧰 Managements		Save
		Applied MAC/IP/Port Filtering Rules
		No. Source Dest Source Protocol Dest Port Source Port Action Comment Pkt Cnt
		Others would be accepted -
		Delete Selected

Туре	Description	
Source MAC	Pre-defined source MAC address for MAC filtering function	
Dest IP Address	Destination IP address	
Source IP Address	Source IP address	
Protocol	Supports TCP, UDP, ICMP	
Dest Port Range	Destination port range	
Source Port Range	Source port range	
Action	Enable/Disable MAC/IP/Port filtering function	



2.6.4. Contents filtering

• Used to block certain websites (IP or domain names).

WLAN AP Operation Mode		Content Fi	Iter Setti	ngs	
🖯 🕣 Internet Settings	It shows current	Webs Content Filter			
WAN LAN DHCP Clients VPN Config Routing	contents tiltering status and user can add/delete rules. User can add maximum 32 rules	Filters		Proxy D Java D ActiveX	
 QoS(802.1p) VLAN(802.1q) Wireless Settings Basic Advanced 		Add new URL:	ļ		Add
Security WDS		Applied Webs URL Filte	ering Rules	URL	_
Security WDS WPS Station List Packet Statistics		Applied Webs URL Filte	ring Rules	URL Delete	
Security WDS WPS Station List Packet Statistics Serial Setting Firewall		Applied Webs URL Hite	rring Rules	URL	
 Security WDS WPS Station List Packet Statistics Serial Setting Firewall DMZ Port Forwarding Descript Silver Si		Applied Webs URL Hite No Add new host keyword:	rring Rules	URL	Add
 Security WDS Station List Packet Statistics Serial Setting Firewall DMZ Port Forwarding Packet Filtering Contents Filtering 		Applied Webs URL Filte No Add new host keyword: Applied Website Host F	rring Rules	URL Delete	Add

Туре	Description		
URL Filter	Block all the websites whose domain is the input text For example, if you input "sex", the websites like <u>www.sex.com</u> is blocked. But <u>www.sexgood.com</u> is not blocked. If you would like to block all the websites whose domain name contains the input text, please use Host Filter function		
Host Filter	Block all the websites whose domain name contains the input text. For example, if you input "game", the websites like www.hangame.com, www.hangame.co.kr are blocked		



2.6.5. System Security

• Defense from external attack.



Туре	Description		
Remote management	t Settings about accessing methods from WAN to WizFi630's embedded web server		
Telnet management	Settings about accessing methods from WAN to WizFi630's telnet		
Ping from WAN Filter	er Disable/Enable the WizFi630's Ping response		
Broadcast Storm filter	Block/Accept the Broadcast packets		
Block Port Scan	Block WizFi630's port-scan function		
Block SYN Flood	Block SYN flood		



2.7. Managements

2.7.1. System Management

	WLAN G	ateway Module	•		
WLAN AP Operation Mode Internet Settings Current Settings Current Setting For Serial Setting For Serial Setting	Configure lanaguage code for web sever, login account and password, NTP (system time sone), Green AP function for power save, Dynamic DNS.	System Manager	nent		
		Language Settings Select Language	English Save		
Managements System Mgmt		Module Name			
Firmware Mgmt Config Mgmt Port Mamt		Name	WLAN-AP Save		
 Packet Statistics 		Adminstrator Settings			
System Status System Log		Account	admin		
		Password	••••		
			Save		
		Telnet Connection Count			
		Count	5 (default5, 1- Save		
		NTP Settings			
		Current Time	Mon Nov 28 15:55:33 GMT 20 Sync with host		
		Time Zone:	(GMT+09:00) Korean 💌		
		NTP Server	time.bora.net ex: time.nist.gov , ntp0.broad.mit.edu , time.stdtime.gov.tw		
		NTP synchronization(hours)	10		
			Save		

Green AP	
Duration	Action
	Disable
00 - : 00 - ~ 00 - : 00 -	Disable
00 - : 00 - ~ 00 - : 00 -	Disable 💌
00 - : 00 - ~ 00 - : 00 -	Disable 💌
	Save
DDNS Settings	
Dynamic DNS Provider None	•
Account	
Password	
DDNS	
	Save
System Status Report	
Status	ole 🗸
IP/Domain:Port#1	30000 0-65535
IP/Domain:Port #2	20000 0-65535
Interval	(1-1440)Minutes
System Description	
5	Save

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Туре	Description
Language	Select language in the list
Administrator	Pre-defined ID/Password for webpage or Telnet login
NTP	
(Network Time	Set NTP server
Protocol)	
Green AP	Low power consumptive AP
DDNS	Once the DDNS server registers yours MAC address, your device can connect to the internet regardless of your address. DDNS service can be provided by DynDNS, freeDNS, zoneedit, no-ip. To use DynDNS, users should go to www.dyndns.org to create user name and domain name. And then, set related configurations by using WizFi630's webpage. Similarly, to use freeDNS zoneedit, or no-ip,users should go to their homepage first to create user name and domain name. And then, set related configurations by using WizFi630's webpage.
DDNS Provider	DynDNS, freeDNS, zoneedit, no-ip
Account	ID for DDNS.
Password	Password for DDNS
DDNS	Host name for DDNS

2.7.2. Firmware

- Upgrade firmware and bootloader.
- WizFi630 do not support upgrading by Remote URL..

WLAN AP	Upgrade system	Upgrade Firmware		
Internet Settings	firmware and	Remote URL		
Serial Setting power off du upgrading!!! Anagements yoload upj	power off during	Update Server	http://damosys.com:8080/DS62x Save	
	about 1 minute to upload upgrade flash	Remote Update	Update Now	
Firmware Momt	and be patient please.	Update Firmware		
Config Mgmt	image will hang up the system.	File Location:	표일 선택 선택된 파일 없음	
Packet Statistics System Status		Save		
System Log	Update Bootloader			
File		File Location: 파일 선택 선택된 파일 없음		
			Save	



2.7.3. Config Settings

• Save the setting value of WizFi630 to the PC.

WLAN AP	Export system configuration to local computer as file. Import local configuration file to system. Configure company loag file to	System Settings	
Internet Settings Wireless Settings		System Configuration Export	
⊡ Serial Setting ⊡ Serial Setting ⊡ Firewall		Export to File	Export
Managements		System Configuration Import	
 Firmware Mgmt Config Mgmt 	system firmware. Export company logo	Import From File	파일 선택 선택된 파일 없음
Port Mgmt Packet Statistics	as file. Make system		Import
System Status	factory default vaule. Make system report	Logo File Export	
System Log	make system reboot.	Logo Export	Export
		Logo File Import	
		File Location	파일 선택 선택된 파일 없음
			Import
		Load Factory Defaults	
		Load Default	Load Default
		System Reboot	
		System Reboot	Reboot System

Туре	Description		
Export Settings The setting files from the PC file are applied to the module.			
Import Settings	The system's setting information is saved as a file in the PC.		
Logo Export Settings User's company logo file is saved in the PC.			
Logo Import Settings	User's company logo from the PC is applied to the system. (GIF file size : 10K , 126x42)		
Load Factory Defaults Change the module's setting to default setting.			
Reboot Reboots the system.			



2.7.4. Port Setting

- ◆ Settings about wired port. In case of Gateway Mode, WAN port is set here
- ◆ In case of Gateway Mode, it is better to use the default WAN port number (Port #0)
- ◆ If you are not the administrator, we do not recommend changing this.

Setup WAN-Port and	Port Settings		
enable/disable per	WAN-Port Configuration		
Port	WAN-Port:	Port #0 💌	Save
	Port Configuration		
	Port #0:	Enable 💌	
	Port #1:	Enable 💌	
	Port #2:	Enable 💌	
	Port #3:	Disable 💌	
	Port #4:	Disable 💌	
		Save	
	Setup WAN-Port and enable/disable per Port	Setup WAN-Port and enable/disable per Port WAN-Port Configuration WAN-Port: Port Configuration Port#0: Port#1: Port#1: Port#2: Port#3: Port#4:	Setup WAN-Port and enable/disable per Port WAN-Port Configuration WAN-Port Port Configuration Port #0 Port #0 Port #1: Enable Port #2: Enable Port #3: Disable Port #4: Disable

Туре	Description		
WAN Port	Select the WAN Port in case of Gateway Mode.		
Port #0	Enable / Disable Port #0.		
Port #1	Enable / Disable Port #1.		
Port #2	Enable / Disable Port #2.		
Port #3	Enable / Disable Port #3.		
Port #4	Enable / Disable Port #4.		



2.7.5. Packet Statistics

• System Statistics shows the system's memory information and system's data transmission size.

₩LAN AP Operation Mode	it displays packet	Statistic	S				
Internet Settings	information per Memory						
Wireless Settings	interfaces.	Memo	ory total:	29656 kB			
Firewall		Mem	ory left:	12576 kB			
🖃 🔂 Managements		WAN/LAN		1			
System Mgmt		Name	Rx Packet	Rx Byte	Tx Packet	Tx Byte	
Firmware Mgmt		WAN	0	0	21	10404	
Port Mamt		LAN	677	86932	316	133105	
Packet Statistics	All interfaces						
System Status		Name	Rx Packet	Rx Byte	Tx Packet	Tx Byte	
System Log		eth2	26992	3633422	21619	14706595	
		lo	16	2387	16	2387	
		ra0	5063	1357905	117	0	
		wds0	0	0	0	0	
		wds1	0	0	0	0	
		wds2	0	0	0	0	
		wds3	0	0	0	0	
		eth2.1	684	90322	316	134369	
		eth2.2	0	0	21	10404	
		br0	677	86932	316	133105	

Туре	Description		
Memory Total	System Memory Size		
Memory left	System Free Memory		
Rx Packet	Rx Packets counts		
Rx Byte	Rx Bytes Counts		
Tx Packet	Tx Packet Counts		
Tx Byte	Tx Bytes Counts		

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2.7.6. System Status

System Status shows the status of the system, status of the system's network information, and the link status of LAN port.



Туре	Description		
F/W Version	Shows the firmware version.		
System Up Time	Shows the system up time.		
Operation Mode Shows the operation mode currently being used.			
Internet Configuration	Shows the internet configuration information.		
Local Network	Shows the local network information.		



2.7.7. System Log

- ◆ The operation history of WizFi630 can be checked by using System Log.
- ◆ If the system log exceeds 24Kbyte, more recent log record is added.

	WLAN Gateway Module			
WLAN AP Operation Mode Operation Mode Serial Settings Operations O	It displays system log information.	System Log Refresh Clear Nov 28 16:52:29 WLAN-AP syslog.info syslogd started: BusyBox v1.12.1 Nov 28 16:52:29 WLAN-AP user.notice kernel: klogd started: BusyBox v1.12.1 (2011-10-11 21:10:20 KST)		



3. Hardware Information

3.1. WizFi630 Pin Map

No	Т	Name	Shared	Description
1		GND		
2		3.3V		
3		GND		
4		3.3V		
5	I/O, IPD	CTS_N	GPIO9	UART1 CTS-N
6	I/O, IPD	RTS_N	GPIO7	UART1 RTS-N
7	I/O, IPD	RIN	GPIO14	UART1 RIN
8	I/O, IPD	DTR_N	GPIO11	UART1 DTR-N
9	I/O, IPD	RxD	GPIO10	UART1 RXD
10	I/O, IPD	TxD	GPIO8	UART1 TXD
11	I/O, IPD	DSR_N	GPIO13	UART1 DSR-N
12	I/O, IPD	DCD_N	GPIO12	UART1 DCD-N
13	0	WLAN_LED		Wireless Init On/ Active Data:blinking
14		NC		
15	I/O	VBUS		USB OTG VBUS pin;Connect VBUS pin of the USB
16		NC		
17	I/O	PADP		USB OTG data pin Data+
18	I/O, IPD	UART_RX		UART2 RxD
19	I/O	PADM		USB OTG data pin Data-
20	I/O, IPD	UART_TX		UART2 TxD
21	0	TXOP0		10/100 PHY Port #0 TXP
22	I	RXIM0		10/100 PHY Port #0 RXN
23	0	TXOM0		10/100 PHY Port #0 TXN
24	I	RXIP0		10/100 PHY Port #0 RXP
25	I	RXIM1		10/100 PHY Port #1 RXN
26	0	TXOP1		10/100 PHY Port #1 TXP
27	I	RXIP1		10/100 PHY Port #1 RXP
28	0	TXOM1		10/100 PHY Port #1 TXN
29	I	RXIP2		10/100 PHY Port #2 RXP
30	0	TXOM2		10/100 PHY Port #2 TXN
31	I	RXIM2		10/100 PHY Port #2 RXN
32	0	TXOP2		10/100 PHY Port #2 TXP
33	0	LINK_LED_0		LAN port 0 Link LED
34	0	LINK_LED_2		LAN port 2 Link LED
35	0	LINK_LED_1		LAN port 1 Link LED
36	I/O, IPD	GPIO0		WPS Button Push
37	I, IPU	CPURST_N		
38	I/O, IPD	EJT_TDO		Reset Button Push(GPIO17)



1	1	i i	1 1	
39	I/O, IPD	EJT_TRSTN	GPIO21	UART2 Tx/Rx LED
40	I/O, IPD	EJT_TMS		Serial Command Mode #1(GPIO19)
41	I/O, IPD	EJT_TDI	GPIO18	UART1 Tx/Rx LED
42	I/O, IPD	EJT_TCK		WPS LED(GPIO20)
43		NC		
44		NC		
45		NC		
46		NC		
47	I/O, IPD	I2C_SCLK		Serial Command Mode #2(GPIO2)
48	I/O, IPD	I2C_SD		RUN LED(GPIO1)
49		GND		
50		3.3V		
51		GND		
52		3.3V		

Table 1. WizFi630 Pin Map



3.2. Dimensions



PCIe SOCKET





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FCC Certification Requirements

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: 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 or 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.

This device complies with Part 15 of the FCC rules. Operation is subject to 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 of this device.

The changes or modifications not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter, except if installed in compliance with FCC Multi Transmitter procedures.

To inherit the modular approval, the antennas for this transmitter must be installed to provide a separation distance of 20cm from all persons and must not be co-located or operating in Conjunction with any other antenna or transmitter.

Note: 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 or 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.



To OEM Installer

1. FCC ID on the final system must be labeled with "Contains FCC ID: XR2WIZ630WI" and "Contains transmitter Module FCC ID: XR2WIZ630WI "

2. In the user manual, final system integrator must ensure that there is no instruction provided in the user Manual to install or remove the transmitter module.

3. Transmitter module must be installed used in strict accordance with the Manufacturer's instructions as described in the user documentation that comes with the product. The user manual of the final host system must contain the following statements: This device complies with Part 15 of the FCC rules. Operation is subject to 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 of this device.

The changes or modifications not expressly approved by the party responsible for

Compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter, except if installed In compliance with FCC Multi Transmitter procedures.

To inherit the modular approval, the antennas for this transmitter must be installed to provide a Separation distance of at least 20cm from all persons and must not be co-located or operating in Conjunction with any other antenna or transmitter.

Note:

The buyer of the module who will incorporate this module into his host must submit the final product to the Manufacturer of the module and the MANUFACTURER OF THE MODULE WILL VERIFY that the product is incorporated in host equipment in a way that is represented by the testing as shown in the test report.

Note:

The module is used AP, Gateway, Household. (except PC.)

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Manual Information to the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.