

# WIZ630wi User Manual

(Version 0.93)



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# **Document Revision History**

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# 1. Introduction

WIZ630wi is a gateway module for converting the RS-232 protocol to TCP/IP protocol. WIZ630wi enables a device with RS-232 serial interface to connect to TCP/IP network through LAN and operate remote measuring, administration, and control. WIZ630wi has an embedded switch inside for IP-Router function, and can operate as 3G-Router/WiBro-Router through USB interface. Devices that communicates through serial communication use Serial-to-LAN, Serial-to-WIFI, Serial-to-3G, and Serial-to-WiBro; WIZ630wi can be used for TCP and UDP communication to the upper layer administration server.

#### 1.1 EVB Construction

#### 1.1.1. Packaging



Figure 1. WIZ630wi-EVB Packaging



#### 1.1.2. Contents



Table 1. WIZ630wi-EVB Contents

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#### 1.1.3. HW Interface

- ♦ LAN ports
- Serial ports
- ♦ 1 USB
- 1 Config Switch
- WIZ630wi I/F Socket
- 1 Reset Button
- 1 WPS Button
- Power connector



Figure 2. WIZ630wi Interface



#### 1.2 Features

- ◆ Complies with IEEE802.11n 4.0.
- Router/AP(Bridge)/AP-Client/Client(Station)/Ad-hoc Mode , WDS/Repeater supported
- ♦ 1T1R RF Interface
- Physical link rate up to 150Mpbs
- Built-in 1 WAN and 2 LAN ports
- ♦ USB / 2 Serial Ports supports
- Working as Wi-Fi Router
- Working as 3G Router
- Working as Wibro / Wimax Router
- ♦ WEP 64/128bit, WPA/WPA2-PSK TKIP, AES and 802.1x
- 802.11e and WMM (Wi-Fi Multimedia)
- Router and Firewall function supported
- Serial to WiFi/Ethernet / Serial to 3G Internet / Serial to Wibro(Wimax)



Figure 3. WIZ630wi Functions

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# 1.3 Specifications

#### 1.3.1. 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)		
Operation Distance (???)	802.11b Outdoor: 150m@11Mbps, 300m@1Mbps Indoor: 30m@11Mbps, 100m@1Mbps 802.11g Outdoor: 50m@54Mbps, 300m@6Mbps Indoor: 30m@54Mbps, 100m@6Mbps 802.11n Outdoor: 30m@150Mbps, 250m@7Mbps Indoor: 20m@150mbps, 100m@7Mbps		
Antenna	u.FL (EVB : 1T1R 2dBi)		

Table 2. WiFi Specifications



#### 1.3.2. Hardware

Туре	Description	
Interface	Serial port : 2 EA LAN port : 3EA USB port : 1 USB Host Port Socket Type : Mini-PCI Express socket	
	U.FL(wireless)	
Temperature	Operation: -30°C~80°C Storage: -30°C~80°C	
Humidity	Operation: 10% to 90%, Non-Condensing Storage: 5% to 90%, Non-Condensing	
	Baud Rate : 1200 ~ 921,600bps	
	Stop bits: 1, 2	
Serial	Parity: None, Odd, Even	
	Flow Control: UART1: XON/XOFF(software), CTS/RTS(hardware), none UART2: XON/XOFF, none	
Power	5V 2A (Module 3.3V/1A) (???)	
Power Consumption (???)	1W = 5V x 200mA ( No LAN port used) 1.05W = 5V x 200mA + 50mA x 1 (1 LAN port) 1.10W = 5V x 200mA + 50mA x 2 (2 LAN ports) 1.20W = 5V x 200mA + 50mA x 3 (3 LAN ports)	
Dimension	33mm X 43mm X 4.5mm	
Weight	6g	

Table 3. HW Specifications



#### 1.3.3. Software

Туре	Description	
Operation Mode	Access Point(Bridge), Client(Station), Gateway, AP-Client, ad-hoc	
Protocol	ARP, UDP, TCP, Telnet, ICMP, DHCP, PPPoE, BOOTP, HTTP	
Security	WEP 64/128bit WPA/WPA2-PSK AES/TKIP 802.1x(Radius)	
Management	HTTP, Serial, UDP	
Notification	Event Logging	
Serial To WiFi	2 Serial Port supported	
<b>3G router</b> 3G(WCDMA) Router function		

Table 4. SW Specifications



# 2. Connecting the Web page of WIZ610wi

• Some items may be not supported depending on the version.

#### 2.1 Web address

 Open a web browser on user's PC. Input the default IP address of WIZ630wi, "192.168.16.254" and click Enter.

🥖 Google -	Windows Internet Explorer	_	
00	🛂 http://192, 168, 16, 254		

### 2.2 Web Login

- ◆ A pop up will request user to input User ID and Password
- User ID: admin / Password: admin



• The system's basic information, as shown below, will appear if successfully authenticated.



WLAN (	Gateway	Module
--------	---------	--------

Wh.AN AF     Operation Hode     Different Settings     Wireless Settings     Sonal Setting		System Status	
	A display system	System Information	
	and internal configuration and configuration and connector mismation	FAV Varianti (	DS620P-11n-48-usb-sta-PCie-mig_v1.122-2011/1925. 2018-46
Handertients		Saturn Up Time	2 days 23 hours, 56 mins; 57 secs
+ System Nomt		Operation Mode	Gateway Mode
Firmware Ngmt		Witeland Driver Visconn	26.0.9
<ul> <li>Config Mgmt</li> </ul>		kiturnet Configurations	
Port Mgnm     Pocket Bansico     Bystem Status     System Log		Committed Type	DHCP
		MORA III AIMDANE	192 168 123 34
		Submer Alask	255.255.256.0
		Detailt Gateway	192 198 123 254
		Filmary Domain Manu Service	768 126 83 1
		Excondus Domian Name Extent	168 126 63 2
		MAC ADDIAN	00 50 38 E0 00 0E

Туре	Description	
F/W Version	The firmware version of WIZ630wi is displayed.	
System Up Time	System up time displayed.	
Operation Mode	System operation mode displayed.	
Internet Configuration	Information of the external network is displayed.	
Local Network	Information of the Local network is displayed.	
Ethernet Port Status	Link of LAN Port status is displayed.	



# 3. Operation mode

- User can select the operation mode.
- The default setting of WIZ630wi is AP Mode. (DHCP Server Enabled)

🕄 WLAN AP 🌗 Operation Mode	It shows current	Operation Mode Configuration
Internet Settings		• Access Point:
🗄 🔄 Wireless Settings	can change operation mode for his own	All ethernet and wireless interfaces are bridged into a single bridge interface.
⊡ ⊡ Managements	system purpose.	<ul> <li>Onleway: 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.</li> </ul>
		Client(Station): The wireless interface is treated as WAN port, and the ethernet ports are LAN ports.
		O AP Client:
		The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.
		O 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.
		Save

#### 3.1 Access Point (Bridge)

In this mode, all Ethernet ports and wireless interface are bridged together. Wired/Wireless interface has the same IP address space with its top mesh. DHCP Server function is disabled and WIZ630wi does not assign an IP. Wireless (LAN Port included) sending periodic Broadcast Packet to Station and maintains a connection with Station.

#### 3.2 Gateway (Router)

Operate in router mode. Interfaces are separated into WAN I/F (Top Internet Business Network), LAN I/F (Sub Private Network: 192.168.16.xxx), Wireless I/F (Sub Private Network: 192.168.16.xxx). Port # 0 will be assigned to the WAN Port. WIZ630wi periodically sends Broadcast Packet to Sub-LAN (LAN Port included) and maintains connection with Station.

#### 3.3 Client (Station)

Wireless I/F is assigned as WAN Port and all Ethernet Ports are bound to LAN Port. Set the profile and the WIZ630wi 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. WIZ630wi periodically sends PING Packet to AP Gateway and maintains connection with AP.

#### 3.4 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. WIZ630wi periodically sends Broadcast Packet to Sub-LAN (LAN Port included) and maintains connection with Station.

#### 3.5 ad-hoc mode

This mode is similar to Gateway mode. The Wireless I/F operates as ad-hoc and connects to Station Point-

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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



# 4. Internet Setting

#### 4.1 Internet connection setting

- ♦ Select the internet service type and WIZ630wi can connect to the internet
- ♦ If users would like to access to Internet, Gateway Mode should be selected.

WLAN AP Operation Mode Important Settings	e gs It shows current internet connection setup information. User may choose different connection type suitable for environment. Besides, user may also configure parameters	Wide Area Network (WAN) Settings		
→ → LAN → → → DHCP clients → → → VPN Config → → → Routing		WAN Connection Type: DHCP Mode	DHCP (Auto config)	
Wireless Settings		Hostname	WLAN-AP	
E G Firewall		MAC Clone		
Administration	according to the	Enabled	Disable 🗸	
	type.	A¢	oply Cancel	

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	1	Description					
	User should choose DHCP Mode when FTTH, cable modems, VDSL, IP-ADSL.	n the user connects to the internet service such as					
	WAN Connection Type:	DHCP (Auto config) 🗸					
DHCP(Auto config)	DHCP Mode						
	Hostname WL	AN-AP					
	MAC Clone						
	Enabled Dis	able 🗸					
	Apply	Cancel					
Static(Fixed IP)	Static IP setting window. If user receives	static IP from ISP, user should set the Fixed IP .					



	WAN Connection Type:	STATIC (fixed IP)					
	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						
	Enabled	Disable 🗸					
	A	pply Cancel					
	Input the network information that	t got from ISP					
		<u>13)</u>					
	WAN Connection Type:	PPPoE (ADSL)					
	PPPoE Mode						
	UserName	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					
	HAC Class						
	MAC CIONE						
	Enabled	Disable 👻					
	Enabled	pply Cancel					
	Enabled	Disable - pply Cancel					
	User Name: Setting the User	Disable  pply Cancel Name received from ISP					
	User Name: Setting the User I Password: Password assigned	Disable  pply Cancel Name received from ISP d by ISP					
	User Name: Setting the User I Password: Password assigner Operation Mode: This mode is	Disable  pply Cancel  Name received from ISP d by ISP s used for re-connecting when connection is bad.					
	User Name: Setting the User Password: Password assigned Operation Mode: This mode is This mode is supported only in Connect the 20 modern of Wir	Disable					



3G Modem Configuration	
PIN	0000
Access Number	*98#
APN	publicip.ktfwing.com
User	
Password	
Detected 3G Modem Inforr	nation
Model Name	CWE-624K
Manufacturer	CMOTECH CO., LTD.
Product	CMOTECH CDMA Technologies
MAC Clone	
Enabled	Disable 👻
[	Apply Cancel



# 4.2 Local network setting

♦ WIZ630wi internal IP setting, DHCP server setting and DHCP.

g WLAN AP ⊡ @ Operation Mode ⊡ ⊖ Internet Settings	H abaw lagal	Local Area Netw	vork (LAN) Settings					
WAN	networking information							
DHCP clients	and user can setup the local networking	LAN Setup						
Routing	function for user's	IP Address	192.168.16.254					
Wireless Settings	network environmente.	Subnet Mask	255.255.255.0					
E Genal Setting		MAC Address	00:50:38:13:00:01					
Administration		DHCP Server	Enable 💌					
Management		Start IP Address	192.168.16.11					
🗟 Firmware 🗟 Config Settings		End IP Address	192.168.16.50					
Status	Status	Subnet Mask	255.255.255.0					
System Log		Primary DNS Server	168.126.63.1					
		Secondary DNS Server	168.126.63.2					
		Lease Time	3600					
		Statically Assigned	MAC:					
		Statically Assigned	MAC:					
		Statically Assigned	MAC:					
		IGMP Proxy	Enable 💌					
		DNS Proxy	Disable 💌					
			Apply Cancel					

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.			
Lease Time	Enter the lease time when IP address is assigned.			
Statically Assigned Maximum of three IP can be statically assigned when IP as assigned.				



# 4.3 DHCP Client Information

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

WLAN AP Jord Operation Mode Jord Internet Settings Jord WAN	AN AP Operation Mode Internet Settings WAN LAN LAN DHCP clients GVPN Config Routing	DHCP Client L	ist							
🔂 LAN		DHCP Clients	DHCP Clients							
VPN Config		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					
Englisherial 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					
Port Settings 🗟 Management			75							

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

#### 4.4 VPN setting

₩LAN AP Ø Operation Mode Internet Settings WAN	It shows VPN passthrought configurations including: L2TP, IPSec, and PPTP passthrough.	VPN Passthro	ugh	
🗟 LAN 🗟 DHCP clients				
🔂 VPN Config		VPN Pass Through		
🔤 Routing		L2TP Passthrough	Disable 👻	
🗄 📋 Wireless Settings		IPSec Passthrough	Disable 👻	
± Serial Setting ∃ Firewall		PPTP Passthrough	Disable 🖵	
Administration				Cancel
📑 Port Settings				
Management				

• This section will explain on VPN packet settings.

Туре	Description
L 2TD Dogo through	Enable : VPN L2TP packet is passed through WAN.
LZTP Pass-unrough	Disable : VPN L2TP packet is not passed through WAN. (Default value)
	Enable : VPN IPSec packet is passed through WAN.
IPSec Pass-through	Disable : VPN IPSec packet is not passed through WAN. (Default value)
	Enable : VPN PPTP packet is passed through WAN.
PPTP Pass-through	Disable : VPN PPTP packet is not passed through WAN. (Default value)



# 4.5 Static Routing Setting

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

WLAN AP		Static Routing Settings									
Internet Settings     WAN     WAN     WAN     OHCP clients     Workers Settings     Senial Setting     Part Settings     Menagement     Menagement     Status     Status	edd and deiste stafic routing fable	Cut	La rooting nuke An atton Ige evalut dasa noment		Host 🔳 LAN 🛓	E]	-				
		110	Confliction (1997) Destination 206-206-206-206	in Dezey Lone Netwask 205 255 205 251	Gateway D.D.D.D	Flage D	Mabic D	Ref a	U94 0	Interface 9044 (and 87)	Comme
		2	192.168.16.0	255 255 255 0	0.0.0.0	1	p el	0	0	LAN(brit)	

Туре	Description			
Destination	nter the Target IP address or network address.			
Range	elect 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.			



# 5. Wireless setting

### 5.1 Basic settings

• This chapter is about basic setting for wireless LAN.

WLAN AP	It shows current	Basic Wireless Settings			
	LAN wireless settings. user				
DHCP clients	can configure the minimum number of	Wireless Network			
Routing	Wireless settings for communication, such	Radio On/Off	RADIO OFF	Current State: Radio On	
🖻 😁 Wireless Settings	as Network Name (SSID) and Channel.	Network Mode	11b/g/n mixed mode	, <b>v</b>	
Advanced	The Access Point can be set simply with	Network Name(SSID)	WLAN-AP	Hidden 🗖 Isolated 🗖	
WDS	only the minimum setting items.	Multiple SSID1		Hidden 🗖 Isolated 🗖	
AP Client	Ŭ	Multiple SSID2		Hidden 🗖 Isolated 🗖	
Station List		Multiple SSID3		Hidden 🗖 Isolated 🗖	
E Serial Setting		Broadcast Network Name (SSID)	• Enable • Disable		
Administration		AP Isolation	C Enable C Disable		
Port Settings		MBSSID AP Isolation	C Enable C Disable		
- Firmware		BSSID	00:50:38:13:00:01		
Config Settings		Frequency (Channel)	2462MHz (Channel 1	1) 💌	
Statistics		HT Physical Mode			
System Log	🚽 System Log	Operating Mode	Mixed Mode O Gree	n Field	
		Channel BandWidth	C 20 C 20/40		
		Guard Interval	C Long C Auto		
		MCS	Auto 💌		
		Reverse Direction Grant(RDG)	C Disable C Enable		
		Extension Channel	2442MHz (Channel 7)		
		Space Time Block Coding(STBC)	C Disable C Enable		
		Aggregation MSDU(A-MSDU)	• Disable C Enable		
		Auto Block ACK	C Disable C Enable		
		Decline BA Request	Oisable C Enable		
	HT Disallow TKIP	C Disable C Enable			
		Other			
		HT TxStream	2 -		
		HT RxStream	2 -		

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.	
Channel	Select the channel of 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.	
AP Isolation	The communication between stations that are connected to the identical SSID is blocked.	
MBSSID AP Isolation	The communication between stations that are connected to different SSID is blocked.	

Туре	Description	
Operation Mode	Decide whether the PHY mode is going to be Mixed Mode or Green Field Mode.	
	Fix bandwidth channel to 20MHz.	
Channel Bandwidth	Use 40MHz as bandwidth in case connection with wireless station that supports 11n	
	channel bonding.	
Guard Interval	Long: 800nsec, Short: 400nsec	
MCS	Control link rate.	
100	Set link rate to auto considering any interruptions.	
PDC	The wireless performance can be improved using Reverse Direct Grant, 11n's RDG	
KDG	technology.	
Extension Channel	Setting for the other 20MHz area when channel bandwidth is set to 40MHz.	
STBC	STBC is supported when the value of MCS is 0-7.	
A-MSDU	Decide whether numerous MSDUs inside one MPDU will transmit.	
Auto Block ACK	Decide whether Block ACK will be transmitted automatically.	
Decline BA Request	Decide whether user wants to decline Block ACK request.	
HT Disallow TKIP	Decide whether to operate in 802.11g, if using TKIP.	
HT TxStream	Setting for number of Tx antennas of 2T2R system.	
HT RxStream	Setting for number of Rx antennas of 2T2R system.	



# 5.2 Advanced Wireless Settings

This chapter is about higher-level setting for wireless LAN

WLAN AP Operation Mode	lise the Advanced	Advanced Wireless Settings		
WAN	Setup page to make			
DHCP clients	detailed settings for	Advanced Wireless		
- 🛃 VPN Config	the Wireless. Advanced Setup	Advanced wireless		
🔤 Routing	includes items that	BG Protection Mode	Auto 🔽	
E 🕣 Wireless Settings	are not available from the Basic Setup page,	Beacon Interval	100 ms (range 20 - 999, default 100)	
Advanced	such as Beacon Interval, Control Tx	Data Beacon Rate (DTIM)	1 ms (range 1 - 255, default 1)	
WDS	Rates and Basic Data Rates.	Fragment Threshold	2346 (range 256 - 2346, default 2346)	
AP Client		RTS Threshold	2347 (range 1 - 2347, default 2347)	
Station List		TX Power	100 (range 1 - 100, default 100)	
E Serial Setting		Short Preamble	C Enable C Disable	
Administration		Short Slot	• Enable • Disable	
Management		Tx Burst	• Enable O Disable	
Firmware		Pkt_Aggregate	• Enable • Disable	
🔤 🔄 Config Settings		IEEE 802.11H Support	C Enable C Disable(only in A band)	
ig Statistics	Statistics System Log	Country Code	KR (Republic of Korea) 💌	
		Wi-Fi Multimedia		
			6 a	
		www.capable	• Enable • Disable	
		APSD Capable	C Enable C Disable	
		DLS Capable	O Enable 💿 Disable	
		WMM Parameters	WMM Configuration	
		Multicast-to-Unicast Converter		
		Multicast-to-Unicast	Enable O Disable	
		Appl	Ly Cancel	

Туре	Description	
BG Protection	Setting for wireless communication when using both 11b and 11g LAN cards.	
	Recommended for automatic settings in general.	
Basson Interval	Controls the interval of sending beacon. The setting range is 20~999 and 100ms is usually	
Deacon interval	used	
DTIM	Controls the data rate of beacon being sent. The setting range is 1~255 and 1ms is usually	
DTIM	used.	
	When a data that is larger than the threshold size, it is fragmented and sent. Smaller	
Fragmentation	threshold size may enable more stable wireless communication; however the maximum	
Threshold	speed is lower. Smaller threshold size is recommended in case of many interruptions from	
	surrounding signals. The setting range is 256~2346.	



RTS Threshold	When a data that 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.		
Tx Power	Controls the range of wireless radio being sent. The range of wireless radio being sent gets larger as the value is larger.		
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.		
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.		
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.		
Pkt_Aggregate	Numerous packets can be transmitted in one MPDU by enabling this function.		
802.11H	Supported only for 802.11a.		
Country Code	Setting for country code. Example: KR(Republic of Korea), US(United State), FCC(Europe), JP(Japan), FR(France), ES(Spain)		
WMM	Decide to whether or not use WMM function.		
APSD	Decide to whether or not use Power Saving Mode.		
DLS	Decide whether or not use DLS (Direct Link Setup) function.		
WMM Parameter	If WMM is enabled, set the value for WMM Parameter.		
Multicast-to- Unicast	Decide whether or not use Multicast function.		



# 5.3 Wireless Security

• This chapter is about settings for wireless network security.

WLAN AP Operation Mode Image Internet Settings WAN	Setup the wireless security and	Wireless Securit	y/Encryption Settings
🛃 DHCP clients	encryption to prevent from unauthorized	Select SSID	
🚽 VPN Config	access and monitoring.	SSID choice	WLAN-AP
- G Wireless Settings		"WLAN-AP"	
🛃 Advanced 🛃 Security		Security Mode	Disable 💽
WDS		Access Policy	
🛃 AP Client 🛃 Station List		Policy	Disable
🖳 🛃 Statistics E 📋 Serial Setting		Add a station Mac:	
Firewall     Grewall     Grewall			Apply Cancel

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.	



#### 5.3.1. Wireless Security setting

♦ Authentication settings

"WLAN-AP"		
Security Mode	WPAPSKWPA2PSK -	
823	Disable	
WPA	SHAREDWEP	
WPA Algorithms	WEPAUTO WPA	IPAES
Pass Phrase	WPA-PSK WPA2	
Key Renewal Interval	WPA2-PSK	4303)
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	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	Radius authentication through WEP Key.	



#### 5.3.2. Wireless Authentication Setting

Encryption	Туре	Description
사용 안 함	OPEN	Encryption algorithm is not used.
WEP64	SHARED/	WEP encryption algorithm is used with 64bit key.
WEP128	WEPAUTO/802.1x	WEP encryption algorithm is used with 128 bit key.
TKIP	WPA/WPA2/	More complex encryption algorithm than WEP Is used.
AES	WPA-PSK/ WPA2-PSK/ WPA1WPA2/ WPAPSKWPA2PSK	New encryption algorithm is used.
TKIP/AES		Support TKIP/AES simultaneously

#### 5.3.2.1. 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 👻

#### 5.3.2.2. TKIP/AES authentication

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

WPA		
WPA Algorithms	◯ TKIP	
Pass Phrase	12345678	
Key Renewal Interval	3600 seconds (0~4194303)	

#### 5.3.2.3. 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.

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WPA	
WPA Algorithms	O TKIP   AES O TKIPAES
Key Renewal Interval	3600 seconds (0~4194303)
Radius Server	
IP Address	
Port	1812
Shared Secret	
Session Timeout	0
Idle Timeout	

### 5.4 WDS 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.

10	1		
	WLAN AP     Geration Mode     Geration Settings     Geration Mode     Geration Mode	Wireless Distribution	Wireless Distribution System
		System(WDS)	
I	DHCP clients		Wireless Distribution System(WDS)
I	- 🗟 VPN Config		
	🗟 Routing		WDS Mode Disable 🗨
I	🖻 😁 Wireless Settings		Applu
I	🗟 Basic		
	🔤 Advanced		Bridge Mode Repeater Mode
I	🔂 Security		
I	wds		
	- 🔂 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.	
Bridge Mode	Register the MAC of AP to be connected. Connect the registered MAC to the AP. (???) AP function is not provided.	
Repeater Mode	Register the MAC of AP to be connected. Connect the registered MAC to the AP. AP function is provided. (The performance of WDS is best in Repeater Mode.)	



## 5.5 WPS Setting

◆ The WDS function enables easier wireless network setting..

WLAN AP			
Operation Mode		WI-FI Protected S	etup
	Setun security easily		
WAN	by choosing PIN or		
DAN DHCP clients	PBC method to do	WPS Config	
VPN Config	Wi-Fi Protected	WPS:	Enable 💌
Routing	Setup.		Apply
🖻 😋 Wireless Settings			
🔤 Basic		MDS Summany	
🔤 Advanced		WPS Summary	
🛛 🛃 Security		WPS Current Status:	Notused
WDS		WPS Configured:	Yes
		WPS SSID:	WLAN-AP
AP Client		WPS Auth Mode:	Open
Station List		WPS Encryp Type:	None
E Grial Setting		WPS Default Key Index:	1
🗄 🧰 Firewall		WPS Key(ASCII)	
🗄 😋 Administration			Generate
🔤 Port Settings		AF FIN.	12451852 Generate
🖳 🗟 Management			Reset OOB
📑 Firmware			
Config Settings			
Status		WPS Progress	
		WPC mode	Com Copp
ligi System Log		WFS mode	
		PIN	
			Apply
		WPS Status	
		WSC:Not used	

Item	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 Encryp 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.	



### 5.6 Wireless network status

- ◆ The status of the station that is connected to WIZ630wi is shown.
- ◆ The surrounding wireless AP's status are shown...

₩LAN AP → B Operation Mode ⊕ → Internet Settings		Statio	on List					
🗄 😋 Wireless Settings	If shows current							
Benic De Adversed	which associated to	Wreless	Network					
Security	this AP here.	MAC Add	829	Aid	PSM MimoPS	MCS )	BW SGI	STEC
Statistics								
8 🛄 Seriel Setting		Neighbor	ing Wireless Networt	ks				
Administration		Channel	SSID	BSSID	Security	Signal (%)	W- Node	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	05:30:0d: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	lptime1004	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	Q00KnSH0Wbasic	00:25:a6:a3:e7:78	NONE	0	11b/g/n	In
		6	KT_WLAN_8A45	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	00:01:36:25:16:60	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+Net3878	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	00:08:9ftbe:79.fc	NONE	100	11b/g/n	In
		9	yjh	00:26:66:2c:a7:40	WPA1PSKWPA2PSKIAES	50	11b/g/n	In
		11	3-WLAN-AP	00:50:38:12:#:58	NONE	100	11b/g/n	In
		11	2-WILAN-AP	00:50:38:12#.5e	NONE	100	11b/g/n	In
		11	QOOKnSHOWbasic	00:25:a6:a2:25:62	NONE	0	11b/g/n	In
		11	WLAN-AP	00:50:38:12:#: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		
Type	Network Type of finding AP		
Туре	In: Infrastructure, Ad: ad-hoc		



#### 5.7 AP Wireless Statistics

◆ The Statistics of wireless communication is shown.

WLAN AP	it shows stations's wireless packet	AP Wireless Statistics	i
	statistcs.	Transmit Statistics	
Security		Tx Success	259
WDS		Tx Retry Count	0
- 🗃 WPS		Tx Fail after retry	0
🗟 Station List		RTS Sucessfully Receive CTS	0
Statistics		RTS Fail To Receive CTS	0
Administration		Receive Statistics	
_		Frames Received Successfully	17836
		Frames Received With CRC Error	4257
		SNR	
		SNR	n/a, 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	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	



# 6. Serial to LAN(Wired and Wireless)

- Individual settings for serial #1 / 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)

/LAN AP Operation Mode		Serial-to-Ethern	et(Serial #1)		
Internet Settings It shows current Sen		Main Connection Configuration			
LAN	serial port #1. user	Status:	Finable		
DHCP Clients	can change it.	Protocol:	C UDP © TCP		
> VPN Config > Routing		Mode:	C Server Client C Mixed		
→ QoS(802.1p) → VLAN(802.1q) Wireless Settings		Server IP:	255 255 255 123 or		
Basic		Server Port.	5000		
<ul> <li>Advanced</li> <li>Security</li> </ul>		Reconnect Interval:	10 Seconds(1-30, default 10)		
WDS		Connection Option:	System BootUp     Serial Data In		
<ul> <li>WPS</li> <li>Station List</li> </ul>		Baudrate:	38400 -		
Packet Statistics		Databits:	8		
<ul> <li>Serial Port#1</li> </ul>		Parity.	None -		
<ul> <li>Serial Port#2</li> <li>Sirowall</li> </ul>		Stopbits:			
Managements		Flowcontrol:	None		
		Status: Protocol			
		Mode:	© Server C Client		
		Server IP:	255 255 255 123 or		
		Server Port	5050		
		Data Packing Condition			
		Time:	milli-second(100-5000, default 0)		
		Size:	Bytes(0-1500, default: 0)		
		Char:	00 Hexacode(00-ff, default: 0)		
		Inactivity Time:	O Seconds(00-60, default; 0)		
		Command Mode:	Enable(Enable: H/W GPIO Used)		
		Ethernet Data Tagging Option			
		Status:	Enable		
		Main Port	IMAIN! string(1-16 chars)		
		Aux Port	IAUX! string(1-16 chars)		



# 6.1 Main Connection settings

Туре	Description	
Ctatua	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)	
Mada	- Server : waits for connection.	
Mode	- Client : connected to the remote server of WIZ630wi	
	- Mixed : not recommended	
Server IP	Enter the IP address for WIZ630wi setting.	
Server Port	Enter the port number for remote serial data server host PC.	
Reconnect Interval	Interval of TCP reconnection.	
	WIZ630wi의 Serial LAN의 connection Type( 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)	

### 6.2 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 WIZ630wi setting.		
Server Port	Enter the port number for remote serial data server host PC.		



# 6.3 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 WIZ630wi.			

## 6.4 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, WIZ630wi 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, WIZ630wi added a TAG in front of payload. For example: In-come LAN Data : "abcdegf" Output data to Serial Port : "!AUX!abcdegf"		



# 7. Firewall settings

Only work at the Gateway Mode

#### 7.1 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 are not supported by your router. In this case, placing your computer in the DMZ is the only way to get the application working.

WLAN Gateway Module ....

w.an af		DMZ Settings
Operation Wode     Internet Settings     WAA     LAH     Dr-CP Ckents     VPN Config     Routing     QoS(8(02.10)     VLAN(802.10)     VLAN(802.10)     VLAN(802.10)     Security     Security     WOS     MPS     Station Lat     Packet Stabistics     Packet Sta	It shows current (24/2 shidos and user over entus (34/2 to organize informal network and (chernet	DM2 Settings DM2 Fidtings OM2 IF Address Sove

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		



#### 7.2 Port forwarding

When a computer on the internet sends data to the external IP address of the router (WIZ630wi), the router (WIZ630wi) needs to know what to do with the data. Port Forwarding simply tells the WIZ630wi 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. So 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		



## 7.3 Packet filtering

- ♦ WIZ630wi can accept or block Internet packets according to pre-defined MAC or IP address
- First, please do basic settings

WLAN AP Operation Mode		MAC/IP/Port litering Settings		
Internet Settinge     WAN     LAN     LAN     OHCP Clants     VIN Config     Sauting     GoS(802.1p)     VLAN(802.1p)	e above surrent macripilical fillening efformation. User car sharpe add and salette misse for special purpose. User can add maximum 32 miss	Easic Settings NACIF Por Titering Disable  Default Police The packet that don't match with any name would be Save		
Wireless Settings		IMAGE Allow Filter Schings       Searce NAC       Deart F       Bource P       Protocol       Deart Part Hange       Deart Range       Dource Port Range       Actual       Drop       Comment       Save		

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		



# 7.4 Contents filtering

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

	WLAN Gateway Module				
WILLEN AF	A attown ouvrenit confecto Attening attation and user can additioned user. Upor care addition user. Upor care additionate user. Upor care additioned user.	Content Filter Sett	Ings F Prov F Java F ActiveX Save	Add	
Advanced     Security     WOS     WPS     Station List     Packet Statistics     OH2     Port Forwarding     Port Forwarding     System Security      System Security      Managements		Applied Webs LRC Filtering Roles Max Add mere boot legennet Applied Websen Hest Filtering Hules: Hest Hest Netwood	URL	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			



# 7.5 System Security

• Defense of external attack.

	WLAN G	ateway Module.		
WLAN AP	It shows current	System Security	y Settings	
	system security to	Remote Web Management		
	protect attacking.	Remote Web Access(via WAN	I) Allow 💌	Port : 8080
DHCP Clients	this settings to protect	Remote Telnet Management		
> VPN Config > Routing	our-side attacking.	Remote Telnet Access (via WA	N) Allow -	Port: 23
QoS(802.1p)		Ping from WAN Filter(Drop)		
VLAN(802.1q)		Ping from WAN Filter(Drop)	Disable 🗸	
Basic		Broadcast Storm Filter		
Advanced		Broadcast Storm Filter	Disable -	
Security		Divadcast Stoffit Filter		
WDS		Block Port Scan		
WPS		Block port scan	Disable 💌	
Station List		Block SYN Flood		
+ Serial Setting		Direct OVAL Floor	Dischla	
E Grewall		BIOCK SYIN FIOOD		
DMZ			Save	
Port Forwarding				
Packet Filtering				
Contents Filtering				
System Security				
🗄 🧰 Managements				

Туре	Description		
Remote management	Settings about accessing methods from WAN to WIZ630wi's embedded web server		
Telnet management	Settings about accessing methods from WAN to WIZ630wi's telnet		
Ping from WAN Filter	ing from WAN Filter Disable/Enable the WIZ630wi's Ping response		
Broadcast Storm filter	Block/Accept the Broadcast packets		
Block Port Scan	Block WIZ630wi's port-scan function		
Block SYN Flood	Block SYN flood		



# 8. Managements

#### 8.1 System Management





Туре	Description
Language	Select language in the list
Administrator	Pre-defined ID/Password for webpage or Telnet login
NTP	Set NTP server
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 WIZ630wi'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 WIZ630wi's webpage.
DDNS Provider	DynDNS, freeDNS, zoneedit, no-ip
Account	ID for DDNS.
Password	Password for DDNS
DDNS	Host name for DDNS

#### 8.2 Firmware

◆ Upgrade firmware and bootloader. Now WIZ630wi doesn't support upgrading by Remote URL.

VILAN AF	Upgrade system	Upgrade Firmwar	e l	
All Basic Advanced Security WDS	formware and bootloader. Do not power off during upgrading?!!	Opelate Demovare File Lacabon		
Station List	and a second to		Apply	
Serial Port#2		Opdate Bootstoder	-	
- sé Hanagement - sé Firmware - sé Config Gettings			Apply	

## 8.3 Config Settings

♦ Save the setting value of WIZ630wi to the PC,



WLAN AF Constant Settings Advanced Sector	Excort system	System Settings	8	- 1970
	configuration to tocal computer as file import local configuration file to system Configure company logo file to system fortware	Export Settings Carrig Export	Export	_
	Export company tops the to local computer as file. Make system configuration as factory default value	file Lacation	Import Cancel	
	Logo Export Settings Logo Export	Export		
		Logis Import Settings File Lecature		했어보기
		Load Factory Defaults	Ingent Cancel	
		System Rebool	Cool Lenov	
		Berthins Reback	Pebnot 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	S 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	oot Reboots the system.		



### 8.4 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 administrator, we do not recommend you do this change.

Color (E) top //d	k2, 168, 123, 70 0000, horow, a	40		
≥ 윤겨엊기 ※ WLAN	-AP	-		
	WLAN Gate	way Module	((	(II))
WLAN AF Giperation Node Giperation Node Giperation Node Giperation Node Giperation G	Selup WAN-Fort and enable/disable per	Port Settings		
	Pot	WAILFort Configuration		
		WW4-Fut;	Port#0 -	Apply
Firmware Coolie Politices		Port Configuration		
Shatus		Pat#U	Enable +	
Statistics.		Fot#1	Enable -	
Ca system tog		FutA2	Enable +	
		Horaz.	Enable +	
		Putter	Enable +	
			AppN Reset	10

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.



### 8.5 Packet Statistics

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

	WLAN	Gateway M	lodule			
ywLAN AP	i dalam andar	Statistics				
B Wirelass Settings	information per	Memory			_	
R 🕒 Senal Setting	viterfaces	Nem	ory title	29656.88		
B C frewall		18am	KOTY MER	14144.88		
Managements		WANLAN				
Finnware Hgmt     Config Hgmt		tians.	REPacout	Fig. Bide	TrFsdiff	TXDAM
		WONT	1298224	250077840	1123498	101524900
Part Hant.		LAN	1842535	110308448	1233337	346591250
<ul> <li>Fackat Statistics</li> </ul>		Alternations				
<ul> <li>System Status</li> <li>System Log</li> </ul>		tuno	Reflacet	Its Upte	DiFactor	Tx Byts
		483	1647338	300494530	2075352	224395836
		40.5	21133	1842945	21133	1842945
		140	14173882	2522868524	2082870	347533600
		03504	0	0	0	0
		WdET.	0	0	D)	Ó
		A012	0	D,	0	Ð
		445=3	0	Ð	0	0
		att12.5	349109	26453300	951682	110058829
		em2:2	1208228	259978618	1123502	101525198
		Dett.	1842538	110306580	123333B	246591343

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



# 8.6 System Status

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

LAN port.

	WLAN G	ateway Module		
WLAN AF		System Status		
	If display system	System Information		
B Senal Setting	Ame, operation mode and internet	#HIV viscalari	09020F-11n-4M-usb-sta-PCH-mmg_v1122-2011/11/25, 2018-46	
B Managements	configuration and	System Lip Time	2 days, 19 hours, 47 mins, 25 secs	
Bystem Ngmt	entrecten information	Operature Multa	Gateway Mode	
<ul> <li>Firmware Mont</li> </ul>		Witness Druit Incom	25.00	
<ul> <li>Config Mgmt</li> </ul>		atturnet Cooligurations		
<ul> <li>Packet Statistics</li> </ul>		Dannadad Type	DHCP	
Bystem Stand		WWW III ADDELL	192 166 123 34	
<ul> <li>Bystem Lag</li> </ul>		Eleberat Maul K	255 255 255 0	
		Detailst Caterony	192 166 123 254	
		Printery Contrain Marrie Server	168 126 63 1	
		Secondary Damain Name Extrat	168 126 83 2	
		MAC Address	00 S0 38 E0 00 0E	
		Local Hetwork		
		Lucui IP Address	192 166 16 254	
		Local Nethaak	255,255,255,0	
		MAC ADDIELS	00 50 38 60 00 00	
		Ethermel Port Status		
			Retesh	

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.



# 8.7 System Log

- ◆ The operation history of WIZ630wi can be checked by using System Log.
- ♦ If the system log exceeds 24Kbyte, more recent log record are added..

	WLAN G	ateway Module
WLAN AP  Operation Mode  Source Settings  Source Settings	M alisplays system log information.	Retresh       Clear         Nov 28 16:52:29 NLAH-AP system.info system started: BusyBox v1.12.1         Nov 28 16:52:29 NLAH-AP user.instice kernel: klogd started: BusyBox v1.12.1 (2011-10-11 21:10:20 KST)



# 9. Client(Station) Mode setting

- WIZ630wi works as a WiFi client(station) which is always paired with a WiFi AP.
- Users can take Client Mode as an opposite of Gateway Mode

#### 9.1 Client Mode Setting



Туре	Description
Client(Station)	Client mode setting
Ping Option	Send Ping data to top connected AP by using any time unit
IP Address	If IP is 0.0.0.0, send Ping data to top connected AP.
Interval	Ping Interval setting ( time unit: second)

#### 9.2 Profile

- Shows the profile of the connected AP. The profile information can be manually input. 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 G	ateway	Module.					
wich an wich an Operation Mode Time Settings	Profile Operation	Station	Profile					
Wireless Settings     Profile     Unik Status     Profile     Site Survey     Proket Statistus     Advance     Pos     WPS     Serial Setting     Frewall     Managements	add/deletrologid/activate	Sefect	Frailie FROF001	SSID. MIZARD	Ghannei Auto	eutramosturi OPEN	Encrystem HONE	Notwork Type Infrastructure
		Add		erên j	]			<u>1000  </u>

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 connecting with ad-hoc.
Authentication	Authentication method of AP to be connected.
Encryption	Encryption method of AP to be connected.
Network Type	Select AP / ad-hoc.



#### 9.3 Link Status

• Shows the link status between wireless LAN and AP.

WLAN AF		Station Link Sta	atus			
0 🛄 Internet Settings	(7 shows module's MOF/ link status, if as	Link Status				
Profile     Profile     Profile     Pure Status     Packet Statistics     Advance     Acon	seen at the client	Datur	WIZARD-AP 00-50	-39-E0-00-0C		
	(Intacion) mode	Ears who	Link to Up			
		Channel	11 \$452000 KHz	Central Channet #		
		Link Speed	Tx(Mops) 135.0	Rx(Maps) 1.0		
		Throughput	Ta(Kbos) 0.0	Rx(Kbos) 58.9		
WPS		Live Gualty	Good B2%			
🛄 Berial Setting		Signa Strength1	Good 90%			
💭 Firewall		Signal Shengtid	Weak 0%	E internet		
E 🛄 Managements:		Entry nemit Bring Kill	Wesk 0%			
		tione Level	Low 0%			
		III		-		
		CBW.	40			
		da.	Autog			
		STBC	nane			
		MCS	7			
		SHED	28			
		SPART	IV.E			

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.

#### ◆ HT항목은 802.11n으로 AP와 연결되었을 때만 나타난다.

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



### 9.4 Site Survey

- Site Survey searches for AP surrounding WIZ630wi
- 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.

WLAN AP     Gperation Mode	If after shows ade survey information of AP's reactly. Over can oftense one of These	Station Site Survey																	
el 🔁 Wirelaas Settings		Sile Su	miy	n															
Profile     Livic Statue     Site Survey		Seed	153E)	BISSID	RIS\$	Charter	Eisiyaaa	NUTLEH CLEWIN	Tipe										
	APs connecting or address of to confile.	0	Settibon_AP	00 1d 7e 54 eb 5b	100%	11	tiot Use	OPEN	âi .										
+ Facket Statistics	anerit didedatates	æ	MAZARD-AP	00.50 38 ±0.00.0c	100%	11	NUT LINE	OPEN	n										
-+ QoS		r	VISION	00112181020	00%	2	WEF	Unknown	ŧ										
-+ WPS		0	Semi-AP-Anjgate	00.1E1E41.0b.24	60%	11	Not Use	OPEN	m										
ti 🛄 firevall		C	WIZARD-AP-dti	00:50 38:12:45:00	00%	11	Not One	OPEN	an .										
8 🛄 Hanagamunta		0	Berni_AP_DLete_24G	00.2431.00 as ad	50%		AES	INFA2.PSK	(in										
			WLANAF	00:00 38 12 46:01	50%	11	NotOse	OPEN	lii -										
			•	damosys_ip604_work	00:08:9tba 79:10	29%	<u>t:</u>	Notszak	OPEN	11									
		r	802 1x	74.9118.8074/69	29%	1	AEIS	WPAS	'n										
		0	nuckus	74/01 10/20 74:60	20%	t	AES	WPA2-P8K	âi -										
												0	McTWis	#0.68.95.7674.32	10%	t	Not Gen	OPEN	81
											C	kimiyong	00:08:91:09 to 10	1546	11	NAST LISE	OPEN	in .	
		•	UTIS-AUTH	Qa 00 66 26 ca 28	0%	7	AEIS	WPA; WPA2	-in										
					0	U+N40E4B	00.40 Sa 18.0e 49	0%	3	4EB	WPA2/PSK	81							
		C		00:10:74:do:712c	0%	6	AEIS	WPA2-PSK	an .										
		C .	usme	00:29 68 68 24 00	0%	iti .	NotUse	OPEN	(h)										

#### 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.
Network Type	Network type of searched AP.
	In: Infrastructure, Ad: ad-hoc
Connected	SSID of AP connected with WIZ630wi.
Connect	Connects with AP.
Rescan	Rescans for surrounding AP.
Add Profile	Adds to profile.



#### 9.5 Packet Statistics

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

WLAN AF Operation Mode  Goeration Mode  Goeration Wretess Settings Frontie Funk Status Fite Survey	Los and the	Station Statistics		
	of oftener signature	Transmit Stations	Table 1	
	atalysissa	Framer Transmitted Successfully	3847	
		Frames Transmitted Successfully Wahaut Refry	D	
		Frames Transmitten Burnesskale After Rettical	3847 (100.00 %)	
→ Eacket Statistics		Frames East To Receive ACK Mer All Helten	210	
Advance		RTU Frames Successfully Redeve CTS	p	
WPS		HTS Frames Fall To Receive CTS	D	
H 🛄 Serial Setting		Receive StateOcs		
🗄 🛄 Firewall		France Redeked Successfully	5174	
91 🛄 Managements		Frames Received With CRC Error	38900 (88.26 %)	
		Frames Dropped Due To Out of Flesource	D	
		Duplicate Frames Received	7	

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
<b>RTS Frames Fail To Receive CTS</b>	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.



# 9.6 Station Advanced Configurations

• Set Station advanced configurations in station mode.

	WLAN G	ateway Module				
WILAN AF	It above the addition's advanced cettings and	Station Advanced Configurations				
Operation Hode     Deration Hode     Deration Hode     Deration Hode     Wireleos Settings			RADIO OFF			
Profile	oper part change the settings	Advance Configuration				
<ul> <li>Link Status</li> <li>Site Survey</li> </ul>		Winniess Wodednits)	802.11 E/G/N mixed made 💽			
<ul> <li>Packet Statistics</li> </ul>		Country Religion Cride	118/6 TICHT-13 💽			
→ QoS		IN'S Protection	Auto •			
WPS		🔽 Tx Barst				
E 🔁 Senar Setting E 🔁 Firewall		HT Physical Mode				
Managements		HT	P MM P GF			
		Bill	C 20 (F AUD)			
		0	C Long C Auto			
		.MC9	Auto •			
		TcAnterno				
		Re Antenna	1.			
		11n Configuration	Save			
		Nation +3 Definition	F enoble C Manual F auto			
		SPGD itenally				
		Appregation 1030L/A-4650(2)	E ensble			
			Sec. 1			
			0.8%			
Туре		Description				
RADIO OFF	Enable / Disable v User cannot use v	vireless LAN vireless LAN if user clicks RAD	NO OFF.			
Wireless Mode	Selects wireless m	node.				
Country Code	Selects the countr	y / regional code.				
	Setting for better wireless communication when both 11b and 11g LAN cards are used.					

	Selects the country / regional code.
B/G Protection	Setting for better wireless communication when both 11b and 11g LAN cards are used. 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.



# 9.7 Station QoS/DLS(Direct Link Setup) Configurations

Set Station QoS / DLS configurations in station mode

WLAN AD	II alsows current winsions Goo autorga and Direct Life Status	Station QoS Configurations				
E 🛄 Internet Settinge		Ges Configuration				
<ul> <li>Profile</li> </ul>		WARDS	🗟 enable			
> Link Status		Will Power Saving	F enable			
Packet Statistics		FEMade	FACEE FACER FAC.VI FAC.VI			
Advance     Dos			Save			
WPS B 🛄 Serial Setting		Direct Linis Setup				
i 🔁 finaval		Direct Laik Getup	/ snable			
Annagements		MAC-Address				
		Fimeout Volum	iser			
			Bake			
		DL S Statum				

Туре	Description				
WMM	Enable WMM function or not.				
WMM Power	Fachla Davies function cannot				
Saving	Enable Power Saving function or not.				
	Enable Direct Link function or not.				
Direct Link Setup	In order to use Direct Link function, the AP connected to WIZ630wi 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.				



## 9.8 WPS Settings

• WPS settings in Station Mode.

	WLAN G	atew	ay Module	P						
WLAN AF + Operation Hode - Internet Settings - Wirelass Settings	it singes With Protection Selva Oner can belia proceity enable by	Wi-Fi Protected Setup (STA)								
► Prafile		No DS		89510	RSSI	Cn.	Autr	Encrypt	AAL.	Statun
<ul> <li>Site Survey</li> </ul>	uhooong PIN or PBC	+ 03	mosys_poo4_wom	DOOB6FBE79FC	100%	1	OPEN	101056	1.0	Cone:
Packet Statistics	Protected Selup	(C) =0	L (1999) (1997)	081074DA7F2C	(Q=1)	1	MPA24PSR	RES	1.0	Cont
8 🔁 Firewall 9 🤁 Managements		AF Bond Primary Hatras Rene	1:2. 46/56 / Device Type-Unkr mill_stoge[Errollee w PN	iown: 1536, 1266 💌 Pau (67122286	<u>  PN</u>	Start	PBC SIS	rt ] [Can	cel	

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	cel Cancels the AP connection attempt.					
Renew PIN	Renews the PIN value of WIZ630wi.					



# 10. AP-Client Mode Settings

- ◆ AP-Client Mode Settings are very similar to the Gateway Mode Settings.
- The picture below is the only added feature of AP-Client mode.
- One module operates as both AP and Station.
- The wireless module connects to a different AP and functions as WAN port.
- The channel of WIZ630wi must be identical to the channel of AP to be connected
- Support wireless bridge.

#### 10.1 AP-Client mode settings





# 10.2 WIFI Multi-Bridge settings

WLAN AP	You pould configure A <sup>to</sup> Chart perameters hare	AP Client Feature					
0 C Driarnat Settings Winelass Settings		Wheeless mail ladge configuration					
+ Desic		Operation Node		# WIFLIS WALL C Nutl-Endge Node			
<ul> <li>Advanced</li> <li>Security</li> </ul>		890		WLANJAP J	Bearch AP		
WD5     WP5     WD5     WD5     WD5     WD11 Multi Ended     Station List     Facket Statistics     Senal Setting		Frequency (Charmel)		2412MHz (Channel 1)			
		MAC Address (Optional)		00750-361+0-10-20			
		Decurth Mode		Open ·			
		Econolium Tipe		None x			
Managementa		WEF Derput Hay		Key I .			
-		NEP Kays	SAP Sec. 5		ASCI -		
			NEP Key 2		ASCI		
			NEP Key L		ASCIL		
			ATT Sec. 4	1(2)	ASON -		

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 of AP to be connected.					
Frequency	Channel of AD to be connected				
(Channel)					
MAC Address	MAC Address of AP to be connected. (optional)				
Security	elect the same security option with AP to be connected.				



# 11. ad-hoc mode setting

- Setting for ad-hoc mode is the almost same as the setting for Client (Station) Mode 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.



# 12. WIZ630wi 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)
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 5. WIZ630wi Pin Map



# 13. Dimensions







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# 14. Serial commands

◆ Please refer to WIZ6x0wi Serial Command Guide



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