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1. Summary of this guide

This guide provides the information needed to configure, use, and update the WizFi630S on the WizFi630S-EVB. It is intended for software developers and system integrators who are embedding this product into their designs.

1.1 Included chapters

- Product overview: Main features of the WizFi630S and an Evaluation broad
- Operation mode
- Configuration methods: Instruction for accessing methods, Web manager and CLI
- Network setting: Instruction for configuring network using Web Manager and CLI method
- System setting: Introduction for adding new software and updating new firmware

2. Product overview WizFi630S is a gateway module of WizFi630S is a gateway module that include the RS-232 protocol and TCP/IP protocol into IEEE802.11 b/g/n wireless LAN protocol. WizFi630S 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 WizFi630S'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.

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2.1 Product Features

- WizFi630A Pin compatible
- 580MHz Clock
- 16-bit DDR2 128Mbytes SRAM, 32Mbytes SPI Flash
- Complies with IEEE802.11b/g/n.
- Gateway/AP(Bridge)/AP-Client/Client(Station)/Ad-hoc Mode , WDS/Repeater supports
- 1T1R RF Interface (2.4G only)
- 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



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2.2 Wireless Features

Туре	Description		
Wireless Standard	IEEE802.11b/g/n		
Frequency Range	802.11b: 2412 ~2462 MHz 802.11g: 2412 ~2462 MHz 802.11n HT20: 2412 ~2462 MHz 802.11n HT40: 2422 ~2452 MHz		
Operating Channels	802.11b: 13 Channels 802.11g: 13 Channels 802.11n HT20: 13 Channels 802.11n HT40: 9 Channels		
Output Power (Tolerance(+/-1dBm))	802.11b: 11dBm@1Mbps 802.11g: 10dBm@6Mbps 802.11n HT20: 9.5dBm@MCS0 802.11n HT40: 7dBm@MCS0		
Receive Sensitivity 802.11b: -48dBm@4% PER			
Data Rates 802.11b: 1,2,5.5,11Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11g: 6,9,12,18,24,36,48,54Mbps 802.11n: 29.5,86.5,115,130,144,150Mbps 802.11n: 29.5,86.5,115,130,144,150Mbps			
Modulation Type 802.11b: DSS(CCK, QPSK, BPSK) 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n HT40: OFDM(64QAM, 16QAM, OPSK, BPSK)			
Antenna	u.FL (EVB : 1T1R 2dBi)		
Encryption	64/128Bit WEP, WPA, WPA2, TKIP, AES, WAPI		

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2.3 HW Features

Туре	Description		
Interface	Serial port : 2 EA (optional 3EA) LAN port : 3 EA USB 2.0 Host : 1 EA I2S : 1EA I2C : 1EA PWM : 4EA		
	U.FL(wireless)		
Temperature	Operating: -25°C~+80°C		
Humidity	TBD		
	Baud Rate : 115200(default)		
Sorial	Stop bits: 1, 2		
Serial	Parity: None, Odd, Even		
	Flow Control: Not supported		
Input Power	DC 3.3V / 1A		
Power Consumption	TBD		
Dimension	33mm X 43mm X 3mm		
Weight	Yr.		
2 4 SW Footures	et		

2.4 SW Features

Software features related to OpenWRT features

Туре	Description		
Operation Mode	Access Point(Bridge), Client(Station), AP-Client		
	Radio Enable/Disable		
	SSID Hidden		
	Multi SSID		
Wireless	Rate Control		
	TX Power Control		
	Beacon Interval		



	DTIM Period	
	Fragment Length	
Protocol	TCP, UDP, ARP, ICMP, DHCP, PPPoE, HTTP	
	WEP 64/128bit	
Security	WPA/WPA2-PSK	
	MAC Address Filtering / Limiting	
	Port Forwading(UDP and/or TCP)	
	DHCP Client / Server	
Network	WDS(Wireless Distribution System) Support	
	NAT	
	VLAN	
	Administrator ID / PWD	
	Station & AP Association Information	
Management	SSH(Secure Shell) Support	
	Web based Configuration / Serial Command Configuration	
	Upgrade through WEB UI	
Serial To Wi-Fi	2 Serial Port supports	
RILING		



2.5 Evaluation Board



User have to prepare below parts their own to use WizFi630S and WizFi630S-EVB.

Power source & serial command line	Wireless	Ethernet

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3. Operation Mode

3.1 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



3.2 Gateway

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



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 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.



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. WizFi630 periodically sends Broadcast Packet to Sub-LAN (LAN Port included) and maintains connection with Station.







4. Configuration Methods

There are 2 basic methods for logging into the WizFi630S module and setting up the operating modes and other configurable settings.

- Web Manager: View and configure all settings easily through a web browser.
- Command Mode: There are a few methods for accessing Command Mode (CLI): making a SSH connection, or connecting a PC or other host running a terminal emulation program to the unit's serial port.

4.1 Configuration using Web Manager

To use the Web Manager of WizFi630S, a network connection must be established between the PC and the module. There are two ways to connect to the network.

- Wireless: PC is connected to WizFi630S AP using Wi-Fi
- Wired: Connect the WizFi630S-EVB's Ethernet interface to the same network as your PC.

After connecting between the devices, you can access the Web Manager using a standard web browser.



 If your PC get a IP address from the WizFi630S module, you can access to Web Manager page through 192.168.1.1 or http://wizfi630s/

vizfi630s OpenWrt SNAPSHOT r9850-2101002b3d Load: 0.00 0.00 0.00		
No password set!		
There is no password set on this router. enable SSH.	. Please configure a root password	to protect the web interface and
		Go to password configuration
Authorization Required		
Please enter your username and passwo	ord.	
Username	root	
Password		
L		Login Reset
	S.II	WIL

The password is not set by default. Click Login without password to go to the setting screen, or click "Go to password configuration..." to set the password.

The initial screen is shown below. Through Web Manager, you can check the status of the device and make system and network related settings.

Status	No password set			
Overview	There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.			
Firewall	Go to password configuration			
System Lon	Status			
Kernel Log	System			
Realline Graphs System Network Logout	Hostname Model Architecture Firmware Version Komel Version Local Time Uptime Load Average		vet/dfs099 WIZzert WGFB305 MediaTek M175805 ver 1 eco 2 Openvint StWaCFHO7 r0850-2101002b3d / LuCI Master (f 4.14.111 Wed Aug 21 01:00:55 2019 23h 7m 135 0.48, 0.20, 0.07	138693)
	Total Available			99 52 MB / 121 97 MB (81%)
	Free			97.09 MB / 121.97 MB (79%)
	Buffered			2.43 MB / 121.97 MB (1%)
	Network			
	Active Connections			269 / 16384 (1%)
	Active DHCP Leases			
	Hostname DANIEL-NB	IPv4-Address 192.168.1.179	MAC-Address 58:00:E3:47:C0:A9	Leasetime remaining 11h 59m 20s
	Active DHCPv6 Lease	\$		
	Host DANIEL-NB	IPv6-Address fdfe:7a98:b4d1::509/128	DUID 0001000120539421fc45964c4e97	Leasetime remaining 11h 59m 22s
	Wireless			
			radio0	
	Type 82.1109 Extension - Extension - Mode Clark Mode Clark Mo			
			<u>IS AP 57095E</u> JC.57.98.5E -	
	Network	MAC-Address	Host Signal / Noise	RX Rate / TX Rate
			No information available	
l				
			·	·

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1850-2101002b3d | Load: 0.77 0.21 0.07 | Auto |



4.2 Configuration using Command mode

The Command Line Interface settings allow you to control how users connect to and interact with the command line of the WizFi630S module. It is possible to configure access SSH protocol, in addition to CLI options using Serial port.

To connect CLI to using Serial port. refer to the following image.



After connecting between the devices, you can access the CLI using a terminal emulation program.

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U-Boot 1.1.3 (Aug 1 2019 - 11:25:14) Board: Ralink APSoC DRAM: 128 MB relocate_code Pointer at: 87fb8000 flash manufacture id: ef, device id 40 19 find flash: W25Q256FV flash address mode: 4B [WizFi630S] MAC: 00:08:dc:57:98:5e Ralink UBoot Version: 4.3.0.0 ASIC 7628_MP (Port5<->None) DRAM component: 1024 Mbits DDR, width 16 DRAM bus: 16 bit Total memory: 128 MBytes Flash component: SPI Fla ponent: SPI Flash 1 2019 Time:11:25:14 Date:Aug _____ icache: sets:512, ways:4, linesz:32 ,total:65536 dcache: sets:256, ways:4, linesz:32 ,total:32768 ##### The CPU freq = 580 MHZ #### estimate memory size =128 Mbytes RESET MT7628 PHY!!!!! vi.net Please choose the operation: 1: Load system code to SDRAM via TFTP. 2: Load system code then write to Flash via TFTP. 3: Boot system code via Flash (default). 4: Entr boot command line interface. 7: Load Boot Loader code then write to Flash via Serial. 9: Load Boot Loader code then write to Flash via TFTP. 0 System Boot system code via Flash. ## Boot system code via Flash.
Booting image at bc050000 ...
Image Name: MIPS OpenWrt Linux-4.14.111
Image Type: MIPS Linux Kernel Image (lzma compressed)
Data Size: 1583627 Bytes = 1.5 MB
Load Addmscr 80000000 Load Address: 8000000 Then press Enter key to activate Serial CLI.



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5. Network Settings

The Network Settings show the status of the WizFi630S module's interface/link and lets you configure the settings on the device. Interface settings are related to the configuration of the IP and related protocols.

The WizFi630S module contains two interfaces. The Ethernet interface is called eth0, and the WLAN interface is called ra0, apcli0.

Some settings require a reboot to take effect.

Interfaces 5.1

s contain Sections of the interfaces declare logical networks serving as containers for IP address settings, aliases, routes, physical interface names they play a central role within the network configuration concept.

5.1.1 Web Manager

If WizFi630S connects to an existing network using the WAN port, configure it on the WAN tab. If your Existing network supports DHCP Server, set "Protocol" to "DHCP Client" as shown below.

ht/630s OpenWtt SNAPSHOT r9650-2101002b3d Load: 0.31 0.20 0.11 Auto Refresh: on			
Status	LAN WAN WANG WWAN		
System	No password set		
Network	There is no password set on this router. Please configure a root password to protect the w	eb interface and enable SSH	
Interfaces		Go to password configuration	
Wireless Switch	Interfaces - WAN		
DHCP and DNS	On this page you can configure the network interfaces. You can bridge several interfaces by	ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation	
Hostnames	INTER-KE, VLAWM (0,0,0, etto. 1).		
Static Routes	Common Configuration		
Diagnostics	General Setup Advanced Settings Physical Settings Firewall Settings		
Firewall	Status	Device: eth0.2	
Logout		Image: State of the s	
	Protocol	DHCP client	
	Hostname to send when requesting DHCP	wizf630s	
	Back to Overview	Save & Apply Save Reset	

If the Existing network does not support DHCP Server or if you want to use defined IP address, set "Protocol" to "Static address" and enter the IP information of the Existing network as below.

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i630s OpenWrt SNAPSHOT	r9850-2101002b3d Load: 0.08.0.08.0.08 Auto Refresh: on	Unseved Change									
Status											
System											
Network	No password set!										
Interfaces	Intere is no password set on this router, mease consigure a root password to protect the web interface and enable SSH.										
Wireless	Interface - WAN										
Switch	Interfaces - WAN										
DHCP and DNS	on this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation INTERFACE. VLAN (and egg, erior.)										
Static Routes	Common Configuration										
Diagnostics	General Setun Advanced Settings Physical Settings Firewall Settings										
Firewall	Status	Device: alb0 2									
Logout		MAC:0008DC57985F R0:08(0Pbs) TX:13901KB(421Pkts)									
	Protocol	Static address									
	IPv4 address										
	IPv4 netmask	Please choose									
	IPv4 gateway										
	IPv4 broadcast										
	Use custom DNS servers	+									
	IPv6 assignment length	disabled									
		Assign a part of given length of every public IPv6-prefix to this interface									
	IPv6 address	Add IPv6 address *									
	IPv6 gateway										
	IPv6 routed prefix										
		Public prefix routed to this device for distribution to clients.									
	IPv6 suffix										
		Optional. Allowed values: 'eui64', 'random', fixed value like '::1' or '::1:2'. When IPv6 prefix (like 'a.b::d:') is received from a delegating server, use the suffix (like '::1') to form the IPv6 address ('a.b::d::1') for the interface.									
	DHCP Server										
	General Setup IPv6 Settings										
	Ignore interface	O Disable <u>DHCP</u> for this interface.									
	Back to Overview	Save & Apply Save Reset									

5.1.2 Command mode to make the same we just did with Web Manager above, see above for more detailed explanation of the steps.

You can show what is set using command below.

uci show network.wan

```
root@wizfi630s:/# uci show network.wan
network.wan=interface
network.wan.ifname='eth0.2'
network.wan.proto='dhcp'
 oot@wizfi630s:/#
```

DHCP Client

- type uci set network.wan.proto='dhcp' and press Return 1.
- type uci commit && service network restart (this will save the changes and restart network 2. interfaces)
- now you can connect the network cable from the WizFi630S's WAN port to your existing 3.



network (the other router's LAN ports usually)

connect again to the WizFi630S at its new address as assigned from dhcp server 4.

Static address

- type uci set network.wan.proto='static' and press Return 1.
- 2. type uci set network.wan.ipaddr='ip-address-here' and press Return
- type uci set network.wan.netmask='subnet-mask-here' and press Return 3.
- 4. type uci commit && service network restart (this will save the changes and restart network interfaces)
- 5. now you can connect the network cable from the device's WAN port to your existing network (the other router's LAN ports usually)
- 6. connect again to the device at its new address as defined above

5.1.3 Other Tabs

existin e ler to connect the e^{x-} Wi-Fi devices need to modify Interface-> LAN in order to connect to WizFi630S as Wired. Also, in order for WizFi630S to connect wirelessly to the existing network, you need to set Interface-> WWAN.

wizfi630s OpenWit SNAPSHOT	r9850-2101002b3d Load: 0.01 0.05 0.06 Auto Refresh: on										
Status	LAN WAN WANE WWAN										
System	No password set!										
Network	There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.										
Interfaces	Go to password configuration										
Wireless	Interfaces - LAN										
DHCP and DNS	The final state of the second state of the sec										
Hostnames											
Static Routes	Common Configuration										
Diagnostics	General Setup Advanced Settings Physical Settings Firewall Settings	General Setup Advanced Settings Physical Settings Firewall Settings									
Firewall	Status	Device: brian Uptime: (0x 22m 0s MAC: 0008 DC: 057 0s 00 (0x 4:40,41 4:61 0562 Phst) PW-152,108,1104 PW-5 (0x 230 bc4:1100 PW-5 (0x 230 bc4:1100									
	Protocol	Static address T									
	IPv4 address	192.168.1.1									
	1Pv4 netmask 285 285 0 ÷ 1										
	IPv4 gateway										
	IPv4 broadcast										
	Use custom DNS servers	*									
	Pr B0										
	IPv6 assignment hint	Assign prefix parts using this hexadeoimal subprefix ID for this interface.									
	IPvő suffix	Optional, Allowed values 'euli4', 'random', fixed value like '::' or '::12'. When IPv8 prefix (like '::bic.d::') is received from a delegating server, use the suffix (like :::') to form the IPv8 address (:bic.d::') for the interface.									
	DKCP Server										
	General Setup Advanced Settings IPv8 Settings										
	Ignore interface	Disable <u>DHCP</u> for this interface.									
	Start	Lowest leased address as offset from the network address.									
	Limit	Maximum number of leased addresses.									
	Lease time	12h © Expiry time of leased addresses, minimum is 2 minutes (2n).									
	Back to Overview	Save & Apply Save Reset									

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zfi630s OpenWrt SNAPSHOT	T r9850-2101002b3d Load: 0.37 0.12 0.09 Auto Refresh: on		Unsaved Changes						
Status	LAN WAN WANG WWAN								
System	No password set!								
Network	There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.								
Interfaces	Go to password configuration								
Wireless Switch	Interfaces - WWAN								
DHCP and DNS	On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation INTERFACE. VLANR (e.g., eth).]).								
Static Routes	Common Configuration	Common Configuration							
Diagnostics	General Setup Advanced Settings Physical Settings Firewall Settings								
Firewall	Status	Device: radio0.network1							
	Protocol	DHCP client							
	Hostname to send when requesting DHCP	wizfi630s							
	Back to Overview		Save & Apply Save Reset						

5.2 Wireless

r as containers f r the srSections of the Wireless declare logical networks serving as containers for wifi-device, wifi-interface. The wifi-device refer physical radio properties present on the system such as channel or country code. And the wifi-interface refer complete wireless configurations such as ssid, key, encryption

5.2.1 Web Manager

If you want to connect to an existing Wi-Fi network with wireless, refer to the WWAN interface in 5.1.

First, click "Enable" button on the "Wireless network is disabled" of Device Configuration-> General Setup tab to activate the Station Mode. The PC may be disconnected from the WizFi630S because the Network Interface of WizFi630S is restarted.

Enter the SSID of the Wi-Fi network to be connected to the ESSID in the Interface Configuration-> General Setup tab, and enter the security settings in the Interface Configuration-> Wireless Security tab.

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zfi630s LOpenWrt SNAPSHO	T r9850-2101002b3d I I oad: 0 18 0 11 0 09 I Auto Refresh: on	Unsaved Change								
Status	radion: Cleart Webouter [radion: Cleart WorkFans, Ap. 570650*]									
System	reador Crient my Noviet reador Crean The Robot _ A _ Strate_									
Network	No password set									
Interfaces	There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.									
Wireless	Go to password configuration									
Switch	Wireless Network: Client "MyRouter" (radio0.netwo	ork1)								
DHCP and DNS	P and DNS The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the <i>Interface Configuration</i> . Pervice Configuration									
Hostnames										
Static Routes										
Diagnostics	General Setup									
Firewall	Status	Mode: Client SSID: MyRouter o% Wireless is disabled								
Logout	Wireless network is disabled	Enable								
	Operating frequency	Mode Band Channel Wildth								
	Interface Configuration									
	General Setup Wireless Security									
	Mode	Client								
	ESSID	MyRouter								
	BSSID									
	Network	wwan: 🖹 🔶 📩								
		Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.								
	Back to Overview	Save & Apply Save Reset								

In the Wireless Network: Client In the "WizFi630S_AP_XXXXXX" (ra0) setting page, you can make settings for the AP mode of the WizFi630S. Basically, it operates in AP mode with SSID of "WizFi630S_AP_XXXXXX".

NIL

vizfi630s OpenWrt SNAPSHO	OT r9850-2101002b3d Load: 0.12 0.10 0.09 Auto Refresh: on										
Status	radio0: Client "MyRouter" radio0: Client "WzFi630S_AP_57985E"										
System	No password set!										
Network	There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.										
Interfaces	Go to password configuration										
Wireless	Wireless Network: Client "WizFi630S AP 57985F" (ra0)										
Switch	The fields network, chefter file 1050_AF_97705E (IdV)										
DHCP and DNS	The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is until SSID capable). Per networks settings like encryption or operation mode are grouped in the <i>interface</i> Configuration.										
Static Routes	Device Configuration										
Diagnostics	General Setup										
Firewall	Status	Moder Client I SSID: WizEi630S AP 57085E									
Logout		BSSID: 000 80 C57 982 273988 BSSID: 000 80 C57 982 586 Channet: 6 (0.000 GHz) 59786 Signal: 0 dBm Noise: 0 dBm Bitrate: 150.0 MbH/s Country: 00									
	Wireless network is enabled	Disable									
	Operating frequency	Band Channel Width									
	General Setup Wireless Security										
	Mode	Access Point									
	ESSID	WizFi630S_AP_57985E									
	BSSID										
	Network	lan: 💯 🔮 🔶 🔹									
		Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.									
	Back to Overview	Save & Apply Save Reset									

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5.2.2 Command mode

5.3 Switch

WizFi630S supports 1-WAN port and 2-LAN port by default.



5.4 Firewall

Sections of the Firewall declare firewall zones for firewall rules to what is allowed to be forwarded across interfaces, which packets are allowed to be inputted to/outputted from, the WizFi630S itself.

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	19850-210	1002b3d Load: 0	.00 0.00 0.00								U	nsaved Cha
atus	General Settings Port Forwards Traffic Rules Custom Rules											
stem	No password set											
twork:	There is no assword set on this muler. Please confinues a root password to protect the web interface and enable SSH.											
aterfaces	Go to password configuration											
vireless	Firewall - Zone Settings											
witch	rirewaii - Lone Settings											
JHCP and DNS	The firewa	Il creates zones o	ver your network in	iterfaces to control	network	traffic flow.						
static Routes	General	Settings										
Diagnostics	Enable S	YN-flood protection	on									
irewall	Drop invi	alid packets										
	Input					accep	t	•	-			
gout	Output				accer							
						accep						
	Forward					reject	reject v					
	Routing/NAT Offloading											
	Experimental feature. Not fully compatible with QoS/SQM.											
	Software flow offloading Software based offloading for routing/NAT Zones											
	Name Zone ⇒ Forwardings Input Out				Output	Forward	1	Masquerading	MSS clamping			
	lan	lan	⇒ wan	accept	•	accept	 accept 				Edit	Delete
	wan	wan	⇒ REJECT	accept		accept	▼ reject	•	•		Edit	Delete
	Name Ian Wan Add	Zone ⇒ Forwa Ian wan	rdings ⇒ Wan ⇒ REJECT	Input accept accept	•	Output accept accept	Forward accept reject	• •	Masquerading □ ☑	MSS clamping	Edit Edit	

In Port Forwards-> New port forward tab, you can configure port forwarding. After all the settings are completed, click "Save & Apply" to restart the Network Interface to activate the Port Forwarding function.

izfi630s OpenWrt SNAPSHOT	r9850-2101002b3d Load: 0.16 0	.03 0.01			Unsaved Changes:					
Status	General Settings Port Forward	ds Traffic Rules Custom Rule	s							
System	No password set!									
Network	There is no assword set on this router. Please configure a root password to protect the web interface and enable SSH.									
Interfaces	Go to password configuration									
Wireless										
Switch	Firewall - Port Forwards									
DHCP and DNS	Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.									
Hostnames	Port Forwards									
Static Routes										
Diagnostics	Name Match Polwaru to Enable									
Firewall	This section contains no values yet									
	New port forward									
Logout	Name P	Protocol External zone	External port	Internal zone Internal IP address	Internal port					
	New port forward	TCP+UDP 🔻 wan 🔻		Ian 🔻 Please choose	Add					
					Save & Apply Save Reset					

WIZnet

6. STATEMENT

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2.Changes or modifications not expressly approved by the party responsible for compliance 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body