11n Wireless 3G Broadband Router

User's Manual

January 2011

FCC Warning

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 communication. 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
- Consult the dealer or an experienced radio/TV technician for help. the receiver is connected.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

IMPORTANT NOTE:

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 a minimum distance of about eight inches (20cm) between the radiator and your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. IEEE802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

Notice

Changes or modifications to the equipment, which are not approved by the party responsible for compliance could affect the user's authority to operate the equipment. Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information.

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Revision History

Revision

History

V1

1st Release

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1. Introduction

This Wireless Broadband Router complies with IEEE 802.11n, and provides faster and farther range than 802.11g while being backward compatible with 802.11g and 802.11b mode. This router uses advanced broadband router chipset and wireless LAN chipset solution to let you enjoy high-speed Wired and Wireless connection. Simply connect this device to a Cable or DSL modem and then you can share your high-speed Internet access with multiple PCs at your home with or without wires. It creates a secure Wired and Wireless network for you to share photos, files, video, music, printer and network storage. WR750R provides maximum transfer rate up to 150Mbps and supports WEP, WPA, WPA2, WPS, 802.1x high-level WLAN security features that guarantee the best security for users.

This product is made in ISO9001 approved factory and complies with FCC part 15 regulations and CE approval.



1.1 Features

Up to 150 Mbps data transfer rates at 802.11n (Wireless) Backward compatible with IEEE 802.11b/g Built-in 4 port 10/100 Ethernet switch with auto speed sensing Supports NAT, NAPT, DHCP Server/Client Supports VPN pass through - IPSec, PPTP, L2TP Supports Virtual Server / Port Trigger Supports Virtual DMZ Host, DNS Proxy, DDNS, UPnP Supports 64/128-bit WEP Data Encryption Supports WPA / WPA2 / WPS / 802.1x Authentication Supports WDS (Wireless Distribution System) mode Supports MAC Filter, Client Filter, URL/IP Filter Supports Auto-crossover (MDI/MID-X) function Supports software upgrade through Web Friendly web-based GUI Configuration and Management

1.2 Specifications

	150 Mbps (802.11n mode)			
Data Transfer Rates	54Mbps (802.11g mode)			
	11Mbps (802.11b mode)			
	IEEE 802.11b / 802.11g / 802.11n (Wireless)			
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x Full Duplex Flow Control			
	(Wired)			
Operating Radius	100M Indoor, 300M Outdoor			
	Connect to Broadband (Cable or xDSL) modem or Ethernet			
Internet Access	backbone for Internet Surfing			
WAN Connection	Dynamic IP, Static IP, PPPoE, PPTP, L2TP			
	NAT (Network Address Translation)			
	NAPT (Network Address and Port Translation)			
	DHCP (Dynamic Host Configuration Protocol) Server/Client			
	Support VPN pass through – IPSec, PPTP, L2TP			
	Support Virtual server / Port Trigger			
IP Management	Support Virtual DMZ host			
	Support DNS Proxy			
	Support Dynamic DNS			
	Support UPnP (Internet Gate Device)			
	Support 64/128-bit WEP Data Encryption			
	Support WPA, WPA2 (802.11i) security			
	Support MAC ACL (MAC Access Control List)			
Security	Support WDS (Wireless Distribution System)			
	Support WPS (Wi-Fi Protected Setup).			
	Support PAP / CHAP / MS-CHAP / MS-CHAPv2 authentication			
	Support 802.1x RADIUS Server			
	Support MAC filter			
	Support IP filter			
Firewall	Support URL blocking			
	Support NAT Protection			
	Support Hacker pattern filter (Port Scan , Land attack, DOSetc)			
	Web-based GUI Configuration / Management			
	Telnet remote management / Web Remote Login from WAN.			
Management	Software Upgrade through Web			
	Support NTP update.			
	Support System Log			

	Support Configuration setting Backup/Restore/Reset Default				
Interface	LAN x 4, WAN x 1, USB2.0				
LED Indicators	POWER, STATUS, LAN x 4, WAN x 1, WLAN x 1				
Antenna	1 Antennas				
Wireless Frequency	2.4000~2.4835GHz				
Output Power	802.11b mode: 16.10 dBm; 802.11g mode: 20.24 dBm; 802.11n 20 MHz mode: 19.50 dBm; 802.11n 40 MHz mode: 18.58 dBm				
	IEEE 802.11b : -88 dBm (Typical), IEEE 802.11g : -70dBm				
Receiver Sensitivity	(Typical)				
	IEEE 802.11n: 20Mhz -68dBm ; 40Mhz -65dBm (Typical)				
Transmit Output Power	11b : 18±1 dBm, 11g : 15±1 dBm , 11n : 15±1 dBm				
Power	DC 5V, 2A				
Dimensions (app)	135.99 mm (length) x 87.33 mm (width) x 24 mm (height)				
Net Weight (app)	152.1 g				
Operating Temperature	0°C ~ 40°C				
Humidity	5 % ~ 95 % (non-condensing)				
Storage Temperature	0°C ~ 70°C				
Supported OS	Windows 98SE, ME, 2000, XP, Vista, Win7, Mac and Linux				
Regulations	FCC, CE				
RoHS Compliant	RoHS Compliant				

1.3 Package Contents

- One Wireless AP Router with 1 antennas
- One External Power Adapter
- One CD-ROM (user's manual)
- One RJ-45 Ethernet Cable

1.4 System Requirements

- Computers with an installed Ethernet adapter.
- Valid Internet Access account and Ethernet based DSL or Cable modem.
- 10/100Base-T Ethernet cable with RJ-45 connector.
- TCP/IP protocol must be installed on all PCs.
- System with MS Internet Explorer ver. 5.0 or later, or Netscape Navigator ver. 4.7 or later.

1.5 LEDs Indication & Connectors of Wireless Router

Front Panel LEDs Indication

с	(۲		
¢				

LED	Light Status	Description
PWR	On	Wireless Router is powered on.
	Off	Wireless Router is powered off.
WLAN	Slow Blinking	WLAN is successfully connected.
	Blinking	Data is being sent or received.
WAN	On	WAN port is successfully connected
	Blinking	Data is being sent or received.
LAN	On	LAN port is successfully connected.
(1, 2, 3, 4)	Blinking	Data is being sent or received.

Back Panel Connectors



Button/Port	Description
Reset	Reset configurations to default. You would use the reset button only when a
	program error has caused your Wireless AP router to hang. Press the button and
	hold after 6 seconds.
WPS	Click WPS button 1 to 3 seconds while you are connecting a PC of wireless adapter
	with WPS function (you must enable WPS' PBC function).
LAN	Ethernet RJ-45 connector, connect to PC with a RJ-45 Ethernet cable.
(1x, 2x, 3x, 4x)	
WAN	Ethernet RJ-45 connector, connect to WAN access device, such as the Cable modem
	or ADSL modem.
DC-5V	Power connector, connect to the power adapter (DC-5V, 2A) packaged with the AP
	router.
USB	Connect the 3G/3.5G USB device to USB Port

1.6 Installation Instruction

- 1) Power off 802.11n AP Router and DSL/Cable modem.
- 2) Connect computer to the LAN port on the Wireless Router with Ethernet cable.
- Connect the DSL or Cable modem to the WAN port on the Wireless Router with Ethernet cable.
- 4) Power on DSL or Cable modem first, then connect power adapter to the power jack on the rear panel of Wireless Router and plug the power cable into an outlet.
- 5) Check LEDs.
 - a) Once power on Wireless Router, Power LED should be on.
 - b) LAN LED should be on for each active LAN connection.
 - c) The WAN LED should be on when the DSL or cable modem is connected.

Warning: Only use the power adapter is provided from this package, use other power adapter may cause hardware damage

2. PC Configuration

To communicate and configure 802.11n AP router, the PC on your LAN must install TCP/IP protocol. Make sure the TCP/IP protocol of the PC is configured for Obtain IP address from DHCP and is connected to LAN (Ethernet) port of the AP router. In doing so, the PC obtains an IP address of 192.168.1.1 from 802.11n AP router.

The 802.11n AP router assumes an IP address of 192.168.1.1 without network connectivity. This IP address is used for communicating with the 802.11n AP router via the web UI or Telnet, with the PC connected to the LAN port.

The 802.11n AP router assumes a DHCP IP address on the WAN side if connected to the network. In this case user can communicate with the same IP address 192.168.1.1 with PC connected to the LAN port. PC in the network can communicate with the DHCP IP address allocated to 802.11n router.

2.1 TCP/IP Networking Setup

Checking TCP/IP Settings for Windows 9x/Me

a) Select "Start -> Control Panel -> Network", the window below will appear,

Network	×
Configuration Identification Access Control	
The following <u>n</u> etwork components are installed:	
Elient for Microsoft Networks	
📇 Microsoft Family Logon	
■gr Diat-Op Adapter ■® SiS 900-Based PCI Fast Ethernet Adapter	
TCP/IP -> Dial-Up Adapter	
TCP/IP -> SiS 900-Based PCI Fast Ethernet Adapter	
Add Remove Properties	
Primary Network Logon:	
Microsoft Family Logon	
<u>File and Print Sharing</u>	
- Description	
TCP/IP is the protocol you use to connect to the Internet and	
wide-area networks.	
OK Cancel	

b) Click "Properties", the window below will appear and then click "IP Address" tab,

Bindings Advanced Net DNS Configuration Gateway WINS Configuration An IP address can be automatically assigned to this configuration If your network does not automatically assigned to this configuration Specify an IP address address automatically assigned to the type If gatement address automatically assigned to the type fm If gatement address address If gatement address address If gatement address address	_
An IP address can be automatically assigned to this con If your retrieval close not automatically assign IP address your network advancementator for an address, and then type the space below.	9105 IP Addect
P ([bran en P address automatically C Specify an P address	nputer set, ask e fin
C Specify an P address	
Plaine	
Egenteran,	
	Carcal

If you decide to use DHCP, select **"Obtain an IP address automatically"**, then click **"OK"** to confirm your settings. Once you restart your system, Wireless Router will obtain an IP address for this system.

If you decide to use fixed IP address for your system, select **"Specify an IP** address", and make sure that **IP Address** and **Subnet Mask** are correct.

c) Select "Gateway" tab and enter correct gateway address in "New gateway" field, then click "Add",

The principal state	Advanced	NeiBirds
DNS Configuration	Gateway WINS Conf	iguration IP Addres
New gateway	r the installed Gateway i c in the list will be the orde d	I will be the default.
Installed gatewa	V E	<u>n:</u>

d) Select "DNS Configuration" tab and make sure select "Enable DNS", enter the DNS address provides from your ISP in the "DNS Server Search Order" field, then click "Add",

Bindings Advanced NetBIOS DNS Configuration Gateway WINS Configuration IP Add IP able DNS IP able DNS IP add IP able DNS Domain IP add IP able DNS IP add IP add IP add IP add IP add <	operties	21
	ings Advanced figuration Gateway WINS Configuration	NetBIOS n IP Address
C Enable DNS Host. Domain. D// 2 Server Deptor Order D// 2 Server Deptor Deptor Order D// 2 Server Deptor Order D// 2 Serv	sable DNS	
Hor. Dynam. Dynam.	vable DNS	
DND Server Deptor Order	Dynum	
Doment Statistic See of Citoer	Server Beardy Order	
Denore Sulla De sul Oleen	<u>A</u> BS	
Denem Spille Search Order	Hennye	
Deners Spille Search Uncer-		
Alto A	r Gillio Gerch Unie	
	.620	
Herover	Renova	
DK. Cano	DK	Cancel

Checking TCI/IP Setting for Windows NT4.0

a) Select "Control Panel \rightarrow Network", window below will appear, click "Protocols" tab then select "TCP/IP protocol",



b) Click "Properties", window below will appear.



Select the network card on your system from "Adapter" field.

If you decide to use IP address from Wireless Router, select "Obtain an IP address from a DHCP server".

If you decide to use the IP address you are desired, select "Specify an IP address". Make sure enter correct addresses in "IP Address" and "Subnet Mask" fields.

You must set Wireless Router's IP address as "Default Gateway".

c) To enter DNS address is provided from your ISP. Select "DNS" tab, click "Add" under "DNS Service Search Order" list, then enter DNS Server IP address in "TCP/IP DNS Server" window and click "Add".

Microsoft TCP/IP Properties	x
IP Address DNS WINS Address DHCP Relay Routing	
Domain Name Sustem (DNS)	
Host Name: Domain	
DNS Service Search Order	
Down4	
Add Edit Henove	
LCP/IP DNS Server 2 X	
DNS Server: Add	
Cancel Down+	

Checking TCP/IP Settings for Windows 2000

a) Select "Start \rightarrow Control Panel \rightarrow Network and Dial-up Connection" and right click "Local Area Connection" then click "Properties",

Local Area Connectior	n Properties	<u>?</u> ×			
General					
Connect using:					
🗐 SiS 900-Based	PCI Fast Ethernet Adap	oter			
,		Configure			
Components checked	l are used by this conne	ction:			
Elient for Micr Elient for Micr Elie and Printe File and Printe Internet Proto	osoft Networks er Sharing for Microsoft I col (TCP/IP)	Networks			
<u>I</u> nstall	<u>U</u> ninstall	Properties			
Description					
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.					
Sho <u>w</u> icon in taskbar when connected					
	0	IK Cancel			

b) Select the "Internet Protocol (TCP/IP)" for the network card on your system, then click "Properties", window below will appear.

Internet Protocol (TCP/IP) Properties	? ×
General	
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator f the appropriate IP settings.	s
Obtain an IP address automatically	
└── Use the following IP address: ────	
IP address:	
Subnet mask:	
Default gateway:	
Obtain DNS server address automatically	
O Use the following DNS server addresses:	
Preferred DNS server:	
Alternate DNS server:	
Advanced	I
OK Ca	ncel

If you decide to use IP address from Wireless Router, select "Obtain an IP address automatically".

If you decide to use the IP address you are desired, select "Use the following IP address". Make sure enter correct addresses in "IP Address" and "Subnet Mask" fields.

You must set Wireless Router's IP address as "Default Gateway".

If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address is provided by your ISP, then click "OK".

Checking TCP/IP Settings for Windows XP

a) Click "Start", select "Control Panel → Network Connection" and right click "Local Area Connection" then select "Properties", window below will appear.

🕂 Local Area Connection Properties 🛛 🔹 💽				
General Authentication Advanced				
Connect using:				
SiS 900-Based PCI Fast Ethernet Adapter				
<u>C</u> onfigure				
This connection uses the following items:				
Elient for Microsoft Networks				
Belle and Printer Sharing for Microsoft Networks				
Cost Packer Scheduler				
I <u>n</u> stall <u>U</u> ninstall <u>Pr</u> operties				
Description				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
Sho <u>w</u> icon in notification area when connected				
OK Cancel				

b) Select "Internet Protocol (TCP/IP)" then click "Properties", window below will appear.

Internet Protocol (TCP/IP) Properties					
General Alternate Configuration					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatically					
Use the following IP address:					
IP address:					
Subnet mask:					
Default gateway:					
Obtain DNS server address automatically					
O Use the following DNS server addresses:					
Preferred DNS server:					
Alternate DNS server:					
Ad <u>v</u> anced					
OK Cancel					

If you decide to use IP address from Wireless Router, select "Obtain an IP address automatically".

If you decide to use the IP address you are desired, select "Use the following IP address". Make sure enter correct addresses in "IP Address" and "Subnet Mask" fields.

You must set Wireless Router's IP address as "Default Gateway".

If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address is provided by your ISP, then click "OK".

Checking TCP/IP Settings for Windows Vista

a) Click "Start" \rightarrow "Control Panel \rightarrow "Manage Network Connections" and right click "Local Area Connection" then select "Properties", window below will appear.

onnect using: 🔮 Reatek RTL8139/	810x Family Fast Et	Local NIC
🔮 Reatek RTL8139/	810x Family Fast Et	Located MIC
		nemet nau
		Configure
his connection uses the	following items:	
Instal	ogy Discovery Map logy Discovery Res Uninitial	Properties
Description		
Transmission Control Pr wide area network prot	rotocol/internet Pro acol that provides o	tocol. The default

b) Select "Internet Protocol (TCP/IP)" then click "Properties", window below will appear.

General You car this cap for the	Alternate Configuration get IP settings assigned a ability. Otherwise, you nee appropriate IP settings.	utomatically if d to ask your r	your n netwo	etwork s rk admin	upports strator
e ĝ	otain an IP address automa	tically			
OU	e the following IP address:				
Pat	idress;	1.24	- iò	18	
5jbr	ort mask:	1.4	- 63	14	1 - I
Defa	ult gateway:	24	- 63	Ω¥.	1
	gtain DNS server address a	utomatically			
OUS	the following DNS server	addresses:			
Ereñ	erred DNS server:		97	11	
<u>ARer</u>	nate DNS server:	1		- 19	i
				Adys	inced
		F	OK		Cancel

If you decide to use IP address from Wireless Router, select "Obtain an IP address automatically".

If you decide to use the IP address you are desired, select "Use the following IP address". Make sure enter correct addresses in "IP Address" and "Subnet Mask" fields.

You must set Wireless Router's IP address as "Default Gateway".

If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address is provided by your ISP, then click "OK".

Checking TCP/IP Settings for Windows 7

a) Click "Start" → "Control Panel" → Double-click Network and Sharing Center icon → Select
 "Local Area Connection #". (Local network your ADSL hooked up with) → Select "Properties"
 → Select "Internet Protocol Version 4 (TCP/IPv4)" then click "Properties"

_	Sharing		
Connect us	ing:		
🔮 Real	tek US <mark>B R</mark> em	ote NDIS Device	
			Configure
This conne	ction uses the	following items:	
🗹 🖷 a	ient for Micros	oft Networks	
🗹 🗐 Q	oS Packet Scl	heduler	
P AFi	e and Printer :	Sharing for Microsoft	Networks
🗹 🔺 In	ternet Protoco	Version 6 (TCP/IP)	v6)
🗹 🔟 In	ternet Protoco	I Version 4 (TCP/IP)	v4)
🗹 🔺 Li	nk-Layer Topo	ology Discovery Map	per I/O Driver
🗹 🔺 Li	nk-Layer Topo	ology Discovery Resp	ponder
	all	Uninstall	Properties
Insta			
l <u>n</u> sta Descriptio	20		
Descriptio Transmis	on ssion Control F	Protocol/Internet Prot	tocol. The default
Descriptio Transmis wide are	on ssion Control F a network pro	Protocol/Internet Prot tocol that provides c	tocol. The default communication
Descriptio Transmis wide are across d	on ssion Control F a network pro iverse intercor	Protocol/Internet Prot tocol that provides of nnected networks.	tocol. The default communication

Configure IP address Automatically:

b) Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" Click "OK" to finish the configuration.

General Alternate Configuration				
You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	tomatically if to ask your	your n netwo	etwork s rk adminis	upports strator
Obtain an IP address automatic	ally			
Use the following IP address: -				
IP address:	-			
Sybnet mask:				1
Default gateway:				1
Obtain DNS server address aut	omatically			
Use the following DNS server a	ddresses:			
Preferred DNS server:				
Alternate DNS server:				1
Validate settings upon exit			Adya	nced

Configure IP Address Manually:

c) Select "Use the following IP address" and "Use the following DNS server addresses".

General	
You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.	tomatically if your network supports to ask your network administrator
Obtain an IP address automati	cally
Use the following IP address: IP address:	102 169 1 10
Subnet mask:	255 . 255 . 255 . 0
 Default gateway:	192.168.1.1
Obtain DNS server address aut	tomatically
Ose the following DNS server a	ddresses:
Preferred DNS server:	195.68.1.1
<u>A</u> lternate DNS server:	• • •
Validate settings upon exit	Ad <u>v</u> anced

IP address: Fill in IP address 192.168.1.x (x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0. Default gateway: Default value is 192.168.1.1. Preferred DNS server: Fill in preferred DNS server IP address. Alternate DNS server: Fill in alternate DNS server IP address.

If you decide to use IP address from Wireless Router, select "Obtain an IP address automatically".

If you decide to use the IP address you are desired, select "Use the following IP address". Make sure enter correct addresses in "IP Address" and "Subnet Mask" fields.

You must set Wireless Router's IP address as "Default Gateway".

If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address is provided by your ISP, then click "OK".

You can use ping command under DOS prompt to check if you have setup TCP/IP protocol correctly and if your computer has successfully connected to this router.

1) Type ping 192.168.1.1 under DOS prompt and the following messages will appear:



If the communication link between your computer and router is not setup correctly, after you type ping 192.168.1.1 under DOS prompt following messages will appear:

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

This failure might be caused by cable issue or something wrong in configuration procedure.

3. Configure Wireless Router via Web Based Utility

The Wireless Router implements a Web server allowing user configure this device via the web based Utility. This Utility provides comprehensive system management scheme, including system configuration, performance monitoring, system maintenance and administration.

3.1 Access Web Based Configuration Utility

To access the Web-Based Configuration Utility, you have to launch your Internet Browser. (MS IE 6.0 or later, Netscape Navigator 4.7 or later).

Step1: Enter Wireless Router's default IP address as <u>http://192.168.1.1</u> in the Address field then press Enter.

Home Page - Windows Internet Explorer		
00 http://192.168.1.1/	• 47 × P Live Search	ρ.
👷 Favorites 🛛 🙀 🔊 Web Slice Gallery 🕶		
Connecting	🏠 👻 🖾 👻 🚍 🖶 👻 Page 🕶 Safety 🕶	Tools 🕶 🔞 🕶

Step2: Login dialog box will appear, enter **admin** as Administrator Name and **1234** as default Administrator Password, and then click **"OK"** to access Configuration Utility.

Windows Security
The server 192.168.1.1 at Wireless Access Point requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
admin •••• Remember my credentials
OK Cancel

Step3: After log in, you can see the Main menu as below.



3.2 Setup Wizard

This page guides you to configure wireless broadband router for first time.



3.2.1 Operation Mode

This page followed by Setup Wizard page to define the operation mode.



3.2.2 Time Zone Setting

This page is used to enable and configure NTP client.



3.2.3 LAN Interface Setup

This page is used to configure local area network IP address and subnet mask.

Teattek WLAN AP Webserver -	Windows Internet Explorer		CIO MA
G	1/home.exp	• 🖹 4 🗶 🦉 Live Search	P +
👷 Favorites 🛛 🙀 🔊 Supperte Breattek WLAN AP Webserver	ed Sites 🔹 🗃 Web Site Ge	ley• @•@•⊡@	• Bage • Salaty • Tool • 🕢 •
GOAHEAD	WebServe	ŕ	
Site contents: Setup Wizard Operation Mode TCP/IP Settings Firewall QoS	3. LAN Int This page is used to LAN part of your Ac mark, DHCP, etc.	erface Setup configure the parameters for local area netwo cess Point. Here you may change the setting	ork which connects to the gfor IP addresss, subset
Route Setup Management Logout	Subnet Marik:	255 255 255 0	ceflaric Navbo
Done		Sintemet Protected Mode: On	(4 - € 200% -

3.2.4 WAN Interface Setup

This page is used to configure WAN access type



3.2.5 Wireless Basic Settings

This page is used to configure basic wireless parameters like Band, Mode, Network Type SSID, Channel Number, Enable Mac Clone(Single Ethernet Client).



3.2.6 Wireless Security Setup

This page is used to configure wireless security.



3.3 Operation Mode

This page is used to configure which mode wireless broadband router acts.



Gateway: Traditional gateway configuration. It always connects internet via ADSL/Cable Modem. LAN interface, WAN interface, Wireless interface, NAT and Firewall modules are applied to this mode.

Bridge: Each interface (LAN, WAN and Wireless) regards as bridge. NAT, Firewall and all routers' functions are not supported.

Wireless ISP: Switch Wireless interface to WAN port and all Ethernet ports in bridge mode. Wireless interface can do all routers' functions.

Apply Changes: Click the Apply Changes button to complete the new configuration setting.

Reset: Click the Reset button to abort change and recover the previous configuration setting.

3.4 Wireless

3.4.1 Basic Settings

This page is used to configure the parameters for wireless LAN clients that may connect to your Broadband Router. Here you may change wireless encryption settings as well as wireless network parameters.

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Site contents:	Wireless Ba	sic Settings	
Setup Wizard Operation Mode	This page is used to co	refigure the parameters for wireless I AN clients which way connect to	
Wireless	your Access Point. He	re you may change wireless encryption settings as well as wireless	
Advanced Settings	network parameters.		
Security	Disable Wireles	s LAN Interface	
WDS settings	Band:	2.4 GHz (8+G+N) ·	
Site Survey	Mode:	AP Multiple AP	
Schedule	Network Type:	Infrastructure -	
Firewall	SSID:	default	
QoS Route Setup	Channel Width:	20MHz -	
Management	Control Sideband:	Upper -	
Logout	Channel Number:	6 -	
	Broadcast SSID:	Enabled -	
	WMM:	Enabled -	
	Data Rate:	Auto 💌	
	Associated Clients:	Show Active Clients	
	Enable Mac Close	ne (Single Ethernet Client)	
	Enable Universa	I Repeater Mode (Acting as AP and client simultaneouly)	
	SSID of Extended Inte	rface: 802.11bgn-SSID-Repeater1	
	Apply Changes	Reset	

Disable Wireless LAN Interface: Click on to disable the wireless LAN data transmission.

Band: This is the range of frequencies the gateway will use to communicate with your wireless devices. As you're looking for products in stores or on the Internet, you might notice that you can choose equipment that supports six different wireless networking technologies: 2.4 GHz(B), 2.4 GHz(G), 2.4 GHz(B+G), 2.4 GHz(N), 2.4 GHz(G+N), and 2.4 GHz(B+G+N).

Mode: Click to select the WLAN AP / Client / WDS / AP+WDS wireless mode. Default set to AP mode.

Network Type: While Mode is selected to be Client. Click to select the network type infrastructure or Ad hoc.

SSID: Specify the network name. Each Wireless LAN network uses a unique Network Name to identify the network. This name is called the Service Set Identifier (SSID). When you set up your wireless adapter, you specify the SSID. If you want to connect to an existing network,

you must use the make up your own name and use it on each computer. The name can be up to 32 characters long and contain letters and numbers.

Channel Width: There have 2 options – 20MHZ and 40 MHZ [N band only].

Control Sideband: Specify if the extension channel should be in the Upper or Lower sideband [N band only].

Channel Number: Sets the channel on which the gateway operates.

Broadcast SSID: Click to enable or disable the SSID broadcast function.

WMM: Click Enabled/Disabled to init WMM feature.

Data Rate: Select the transmission data rate from pull-down menu. Data rate can be auto-select, 1M to 54Mbps or MCS.

Associated Clients: This table shows MAC address, transmission, reception packet counters and encrypted status for each associated wireless clients.

Enable Mac Clone (Single Ethernet Client): Take Laptop NIC MAC address as wireless client MAC address. [Client Mode only]

Enable Universal Repeater Mode (Acting as AP and Client simultaneously): Click to enable Universal Repeater Mode.

SSID of Extended Interface: Assign SSID when enables Universal Repeater Mode.

3.4.2 Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your WLAN Broadband Router.

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Site Contents. Setup Wizard	wircless Auv	anceu Settings	
Operation Mode	These settings are only for	r more technically advanced users who have a sufficient knowledge	
Basic Settings	changes will have on you	e settings should not be changed unless you know what effect the r Access Point.	
Advanced Settings			
Access Control	Fragment Threshold:	2346 (256-2346)	
WDS settings	RTS Threshold:	2347 (0-2347)	
- Site Survey	Beacon Interval:	100 (20-1024 ms)	
- Schedule	Preamble Type:	Long Preamble Short Preamble	
TCP/IP Settings	IAPP:	Enabled	
QoS	Protection:	C Enabled	
Route Setup	Aggregation:	Enabled	
- Management	Short GI:	Enabled Obsabled	
	WLAN Partition:	Enabled Disabled	
	STBC:	Enabled @ Disabled	
	20/40MHz Coexist:	C Enabled @ Duabled	
	Pre Andre Loset,	10/76 U 10/76 U 2076 U 2076 U 2076	
	Apply Changes	Reset	

Fragment Threshold: Fragmentation Threshold sets the frame size of incoming messages (ranging from 256 to 2346 bytes) used as fragmentation boundary. If the frame size is too big, the heavy interference affects transmission reliability. If the frame size is too small, it decreases transmission efficiency. Default setting is 2346.

RTS Threshold: Lower the signal RTS (Request To Send) to promote the transmission efficiency in condition of noisy environment or too many clients. Default setting is 2347.

Beacon Interval: Beacon Interval means the period of time between one beacon and the next one. The default value is 100 (the unit is millisecond, or 1/1000 second). Lower the Beacon Interval to improve transmission performance in unstable environment or for roaming clients, but it will be power consuming.

Preamble type: Preamble is the first sub field of PPDU, which is the appropriate frame format for transmission to PHY (Physical layer). There are two options, Short Preamble and Long Preamble.

IAPP: Click to enable or disable the IAPP function.

Protection: Protect 802.11n user priority.

Aggregation: Click to enable or disable the Aggregation function.

Short GI: Using a short (400ns) guard interval can increase throughput. However, it can also increase error rate in some installations, due to increased sensitivity to radio-frequency reflections

WLAN Partition: Click to enable or disable the WLAN Partition function.

STBC: Click to enable or disable the STBC function.

20/40MHz Coexist: Click to enable or disable the Coexist function.

RF Output Power: To adjust transmission power level.

3.4.3 Security

This page allows you setup the wireless security. Turn on WEP, WPA, WPA2 by using encryption keys could prevent any unauthorized access to your wireless network.

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GOAHEAD Site contents: Setup Wizard Operation Mode	Wireless Security S This page allows you setup the wire could prevent any unauthorized acc	Setup less security. Turn on WEP or WPA by using Encryption Keys ess to your windless network.
Advanced Settings Security WDS settings Site Survey WPS Schedule TCP/IP Settings	Select SSID: Root AP - default Encryption: 802.1x Authentication:	Apply Changes Reset
Firewall CaS Route Setup Management Logout	Key Length: Key Format: Encryption Key:	64-bt • Hex (10 characters) •
Dane		Internet Protected Modes On

Select SSID: Select the SSID from multiple APs.

Encryption: Select the encryption supported over wireless access. The encryption method can be None, WEP, WPA, WPA2 or WPA-Mixed.

Use 802.1x Authentication: While Encryption is selected to be WEP. Click the check box to enable IEEE 802.1x authentication function.

Authentication Type: Click to select the authentication type in Open System, Shared Key or Auto selection.

Key Length: Select the WEP shared secret key length from pull-down menu. The length can be chose between 64-bit and 128-bit (known as "WEP2") keys. The WEP key is composed of initialization vector (24 bits) and secret key (40-bit or 104-bit).

Key Format: Select the WEP shared secret key format from pull-down menu. The format can be chose between plant text (ASCII) and hexadecimal (HEX) code.

Encryption Key: Secret key of WEP security encryption function.

WPA Authentication Mode: While Encryption is selected to be WPA. Click to select the WPA Authentication Mode with Enterprise (RADIUS) or Personal (Pre-Shared Key).

WPA Cipher Suite: Select the Cipher Suite for WPA encryption.

WPA2 Cipher Suite: Select the Cipher Suite for WPA2 encryption.

Pre-Shared Key Format: While Encryption is selected to be WPA. Select the Pre-shared key format from the pull-down menu. The format can be Passphrase or Hex (64 characters). [WPA, Personal(Pre-Shared Key) only]

Pre-Shared Key: Fill in the key value. [WPA, Personal(Pre-Shared Key) only]

Enable Pre-Authentication: Click to enable Pre-Authentication. [WPA2/WPA2 Mixed only, Enterprise only]

Authentication RADIUS Server: Set the IP address, port and login password information of authentication RADIUS sever.

3.4.4 Access Control

If you enable wireless access control, only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When this option is enabled, no wireless clients will be able to connect if the list contains no entries.

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GOAHEAD Site contents: Setup Wizard Operation Mode	Wireless Access If you choose 'Allowed Listed', access control list will be able to selected, these wireless clients	Control only those clients whose wireless MAC addresses a connect to your Access Point. When Deny List on the list will not be able to connect the Access i	s are in the of is Point.
Advanced Settings Security Access Control WDS settings Site Survey WPS Schedule Schedule	Wireless Access Control Mode MAC Address: Apply Changes	er Existicite • Concernent	
Firewall CoS Route Setup Management Logout	Current Access Centrol List: MAC Address	Councest Select	č
	Debite Selected	Delete All Reset	
Done		Internet Protected Mode: On	G - 1,100% -

Wireless Access Control Mode: Click the Disabled, *Allow Listed* or *Deny Listed* of drop down menu choose wireless access control mode. This is a security control function; only those clients registered in the access control list can link to this WLAN Broadband Router.

MAC Address: Fill in the MAC address of client to register this WLAN Broadband Router access capability.

Comment: Fill in the comment tag for the registered client.

Current Access Control List: It shows the registered clients that are allowed to link to this WLAN Broadband Router.

Delete Selected: Click to delete the selected clients that will be access right removed from this WLAN Broadband Router.

Delete All: Click to delete all the registered clients from the access allowed list.

Reset: Click the Reset button to abort change and recover the previous configuration setting.

3.4.5 WDS Setting

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other AP that you want to communicate with in the table and then enable the WDS.

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GOAHEAD Site contents: Goperation Mode Wireless Basic Settings Advanced Settings Advanced Settings Security Access Control WDS settings Site Survey WDS settings Site Survey WDS Site Survey WDS Firewall	WDS Settings Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS. Enable WDS MAC Address: Data Rate: Auto - Comment:
- QoS - Route Setup	Apply Changes Reset Set Security Show Statistics
- Management	Current WDS AP List:
	MAC Address Tx Rate (Mhps) Comment Select
	Delete Selected Delete All Reset
Done	😜 Internet Protected Mode: On 🏾 🖓 💌 🔍 100% 💌

Enable WDS: Click the check box to enable wireless distribution system.

MAC Address: Fill in the MAC address of AP to register the wireless distribution system access capability.

Data Rate: Select the transmission data rate from pull-down menu.

Data rate: can be auto-select, 1M to 54Mbps or MCS.

Comment: Fill in the comment tag for the registered AP.

Apply Changes: Click the Apply Changes button to complete the new configuration setting.

Reset: Click the Reset button to abort change and recover the previous configuration setting.

Set Security: Click button to configure wireless security like WEP(64bits), WEP(128bits), WPA(TKIP), WPA2(AES) or None

Show Statistics: It shows the TX, RX packets, rate statistics.

Delete Selected: Click to delete the selected clients that will be access right removed from this WLAN Broadband Router.

Delete All: Click to delete all the registered clients from the access allowed list.

Reset: Click the Reset button to abort change and recover the previous configuration setting.

3.4.6 Site Survey

This page is used to view or configure other APs near yours.



SSID: It shows the SSID of AP.
BSSID: It shows BSSID of AP.
Channel: It show the current channel of AP occupied.
Type: It show which type AP acts.
Encrypt: It shows the encryption status.
Signal: It shows the power level of current AP.
Refresh: Click the Refresh button to re-scan site survey on the screen.
Connect: Click the Connect button to establish connection

3.4.7 WPS

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client atomically synchronize its setting and connect to the Access Point in a minute without any hassle.

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 Site contents: Setup Wizard Operation Mode Wireless Basic Settings Advanced Settings Security Access Control WDS settings Site Survey WPS Schedule TCP/IP Settings Firewall QoS Route Setup Management Construct 	Wi-Fi Protected Setup This page allows you to change the setting for WPS (Wi-Fi Protected Setup). If feature could let your wireless client automically syncronize its setting and contacted setup. If feature could let your wireless client automically syncronize its setting and contacted setup. If feature could let your wireless client automically syncronize its setting and contacted setup. If feature could let your wireless client automically syncronize its setting and contacted setup. If feature could let your wireless client automically syncronize its setting and contacted setup. If feature could let your wireless client automically syncronize its setting and contacted setup. If feature configured are set to unconfigured setup. If feature configuration: Disable WPS Configured @ UnConfigured Reset to Unconfigured Reset to Unconfigured SetI-PIN Number: SetI-PIN Number: Start PIN Client PIN Number: Start PIN	Using this meet to the
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Disable WPS: Click on to disable the Wi-Fi Protected Setup function.

WPS Status: Show WPS status is Configured or UnConfigured.

Self-PIN Number: Fill in the PIN Number of AP to register the wireless distribution system access capability.

Push Button Configuration: The Start PBC button provides tool to scan the wireless network. If any Access Point or IBSS is found, you could connect it automatically when client join PBC mode. **Apply Changes:** Click the Apply Changes button to complete the new configuration setting. **Reset:** Click the Reset button to abort change and recover the previous configuration setting.

Current Key Info: Authentication-It shows the Authentication is opened or closed. Encryption-It shows the Encryption mode. Key-It shows the Encryption key.

Client PIN Number: Fill in the Client PIN Number from your Client sites.

3.4.8 Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.

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3.5 TCP/IP Settings

3.5.1 LAN Interface

This page is used to configure the parameters for local area network that connects to the LAN ports of your WLAN Broadband Router. Here you may change the setting for IP address, subnet mask, DHCP, etc.

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Wieless	LAN port of your Access l	pure the parameters for local area network which connects to the Point. Here you may change the setting for IP addresss, submet				
TONP Settings	musk, DHCP, etc.					
WAN Interface	IP Address:	192 168 1 1				
DoS	Subnet Mask:	255 255 255 0				
Route Setup	Default Gateway:	0000				
Logout	DIRCP:	Server +				
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	Clone MAC Address:	0000000000				
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IP Address: Fill in the IP address of LAN interfaces of this WLAN Access Point.

Subnet Mask: Fill in the subnet mask of LAN interfaces of this WLAN Access Point.

Default Gateway: Fill in the default gateway for LAN interfaces out going data packets.

DHCP: Click to select Disabled, Client or Server in different operation mode of wireless Access Point.

DHCP Client Range: Fill in the start IP address and end IP address to allocate a range of IP addresses; client with DHCP function set will be assigned an IP address from the range.

Show Client: Click to open the Active DHCP Client Table window that shows the active clients with their assigned IP address, MAC address and time expired information. [Server mode only]

Static DHCP: Select enable or disable the Static DHCP function from pull-down menu. [Server mode only]

Set Static DHCP: Manual setup Static DHCP IP address for specific MAC address. [Server mode only]

Domain Name: Assign Domain Name and dispatch to DHCP clients. It is optional field.

802.1d Spanning Tree: Select enable or disable the IEEE 802.1d Spanning Tree function from pull-down menu.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

3.5.1.1 Static DHCP Setup

This page allows you reserve IP address and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the DHCP server.

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Sile contents Site contents Setup Wizard Operation Mode Wireless TCP/P Settrep	Static DHCP S This page allows you reservary time it requests an IP address from	Setup re IP addresses, an Ideana. This is also the DHCP server.	d assign the same IP not the same as when	addeess to the vertuals device with a device has a static IP address ex	s the specified MAC address opt that the device must still
VVAI Interface VVAI Interface Firewall OuS Route Setup Nanogement Loginut	Enable Staric DHCP IP Address: MAC Address: Connext:		-		
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IP Address: If you select the Set Static DHCP on LAN interface, fill in the IP address for it.

MAC Address: If you select the Set Static DHCP on LAN interface, fill in the MAC address for it.

Comment: Fill in the comment tag for the registered Static DHCP.

Static DHCP List: It shows IP Address MAC Address from the Static DHCP.

Delete Selected: Click to delete the selected clients that will be removed from the Static DHCP list.

Delete All: Click to delete all the registered clients from the Static DHCP list.

Reset: Click the Reset button to abort change and recover the previous configuration setting.

3.5.2 WAN Interface

This page is used to configure the parameters for wide area network that connects to the WAN port of your WLAN Broadband Router. Here you may change the access method to Static IP, DHCP, PPPoE or PPTP by click the item value of **WAN Access Type**.

[Static IP]



Static IP: Click to select Static IP support on WAN interface. There are IP address, subnet mask and default gateway settings need to be done.

IP Address: If you select the Static IP support on WAN interface, fill in the IP address for it.

Subnet Mask: If you select the Static IP support on WAN interface, fill in the subnet mask for it.

Default Gateway: If you select the Static IP support on WAN interface, fill in the default gateway for WAN interface out going data packets.

MTU Size: Fill in the mtu size of MTU Size. The default value is 1400.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from

WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the Apply Changes button to complete the new configuration setting.

Reset: Click the *Reset* button to abort change and recover the previous configuration setting.

[DHCP Client]



DHCP Client: Click to select DHCP support on WAN interface for IP address assigned automatically from a DHCP server.

Host Name: Fill in the host name of Host Name. The default value is empty.

MTU Size: Fill in the mtu size of MTU Size. The default value is 1400.

Attain DNS Automatically: Click to select getting DNS address for *DHCP* support. Please select *Set DNS Manually* if the *DHCP* support is selected.

Set DNS Manually: Click to select getting DNS address for DHCP support.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the Apply Changes button to complete the new configuration setting.

Reset: Click the *Reset* button to abort change and recover the previous configuration setting.

[PPPoE]

PPPoE: Click to select PPPoE support on WAN interface. There are user name, password, connection type and idle time settings need to be done.

User Name: If you select the PPPoE support on WAN interface, fill in the user name and password to login the PPPoE server.

Password: If you select the PPPoE support on WAN interface, fill in the user name and password to login the PPPoE server.

Service Name: Fill in the service name of Service Name. The default value is empty.

Connection Type: Select the connection type from pull-down menu. There are **Continuous**, **Connect on Demand** and **Manual** three types to select.

- Continuous connection type means to setup the connection through PPPoE protocol whenever this WLAN AP Router is powered on.
- Connect on Demand connection type means to setup the connection through PPPoE protocol whenever you send the data

packets out through the WAN interface; there are a watchdog implemented to close the PPPoE connection while there are no data sent out longer than the idle time set.

Manual connection type means to setup the connection through the PPPoE protocol by clicking the Connect button manually, and clicking the Disconnect button manually.

Idle Time: If you select the **PPPoE** and **Connect on Demand** connection type, fill in the idle time for auto-disconnect function. Value can be between 1 and 1000 minutes.

MTU Size: Fill in the MTU size of MTU Size. The default value is 1400.

Attain DNS Automatically: Click to select getting DNS address for *DHCP* support. Please select *Set DNS Manually* if the *DHCP* support is selected.

Set DNS Manually: Click to select getting DNS address for DHCP support.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the **Apply Changes** button to complete the new configuration setting. **Reset:** Click the **Reset** button to abort change and recover the previous configuration setting.

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- Wireless	your Access Point. Here	you may change the access method to static IP, DHCP, PPPaE, PPTP, USB3	d d
TORMP Settings	or LITP by click the iten	i value of WAN Access type.	
WAN Interface	WAY LOOP THE	DOIL D	
- Firewall	wAb Access 13be:		
IP Filtering	User Name:		
MAC Filtering	Password:		
Port Forwarding	Service Name:	<u>(</u>	
OMZ	Connection Type:	Contract Discontent	
VLAN Das	Me Time:	5. 12 1000 minute 0	
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Management		(1300-149) (1390-149)	
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	· Ser Loss manually		
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	DNS 2:		
	DNS 3:		
	Clone MAC Address:	00000000000	
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	🗷 Inable IGMP Pres	,	
	🖺 Inshie Ping Acces	s sa WAN	
	Inable Web Serve	r Access on WAN	
	III Inside IPsec pass	through an VPN connection	
	Inable PPTP pass	through an VPN connection	
	In Inside L21P pass	through on VPN connection	
	Enable D'vé para é	trough an vro connection	
	Apply Changes	Reset	

[PPTP]

PPTP: Allow user to make a tunnel with remote site directly to secure the data transmission among the connection. User can use embedded PPTP client supported by this router to make a VPN connection.

Get the WAN IP Automatically: Click to select PPTP Dynamic support on WAN interface for IP address assigned automatically from a PPTP server.

IP Address: If you select the PPTP support on WAN interface, fill in the IP address for it. Subnet Mask: If you select the PPTP support on WAN interface, fill in the subnet mask for it. Gateway: If you select the Static PPTP support on WAN interface, fill in the gateway for WAN interface out going data packets.

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Site contents:	WAN Interfa	ce Setup		1
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Operation Mode Wireless	your Access Point Here	you may change the access method to sta	nic IP, DHCP, PPPaE, PPTP, USEG	
TOMP Settings	or LITP by click the iter	value of WAN Access type.		
LAN Interface	WAN Access Tomo	(Internet in the second		
Firenal	was access type:	1212110 ·		
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Part Forwarding	Server IP Address	172.1.1.1		
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	MTU Size:	1460 (1400-1460 bytes)		
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	Table Web Serve	Access on WAN		
	Enable Pres ners	brough an UPN connection		
	Enable PPTP man	through an VPN connection		
	Enable L2TP pass	brough on VPN connection		

Server IP Address : Enter the IP address of the PPTP Server.

Server Domain Name: Assign Domain Name and dispatch to PPTP servers. It is optional field. **User Name:** If you select the PPTP support on WAN interface, fill in the user name and password to login the PPTP server.

Password: you select the PPTP support on WAN interface, fill in the user name and password to login the PPTP server.

MTU Size: Fill in the mtu size of MTU Size. The default value is 1400.

Request MPPE Encryption: Click the checkbox to enable request MPPE encryption.

Attain DNS Automatically: Click to select getting DNS address for *PPTP* support. Please select *Set DNS Manually* if the *PPTP* support is selected.

Set DNS Manually: Click to select getting DNS address for PPTP support.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the *Apply Changes* button to complete the new configuration setting.Reset: Click the *Reset* button to abort change and recover the previous configuration setting.

Note: PPTP Gateway Your ISP will provide you with the Gateway IP Address. If your LAN has a PPTP gateway, then enter that PPTP gateway IP address here. If you do not have PPTP gateway then enter the ISP's Gateway IP address above.

[L2TP]

L2TP: Allow user to make a tunnel with remote site directly to secure the data transmission among the connection. User can use embedded L2TP client supported by this router to make a VPN connection.

Get the WAN IP Automatically: Click to select L2TP Dynamic support on WAN interface for IP address assigned automatically from a PPTP server.

IP Address: If you select the L2TP support on WAN interface, fill in the IP address for it.

Subnet Mask: If you select the L2TP support on WAN interface, fill in the subnet mask for it. **Gateway:** If you select the Static L2TP support on WAN interface, fill in the gateway for WAN interface out going data packets.

Server IP Address: Enter the IP address of the L2TP Server.

Server Domain Name: Assign Domain Name and dispatch to L2TP servers. It is optional field. **User Name:** If you select the L2TP support on WAN interface, fill in the user name and password to login the PPTP server.

Password: you select the L2TP support on WAN interface; fill in the user name and password to login the PPTP server.

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	NebServer	2							
CAHEAD	rebberrer								
Site contents	WAN Interfa	ice Setup		12					
Setup Wizard									
Wreless	This page is used to configure the parameters for interest network which connects to the WAN part of your Access Point. Here you may change the access method to static IP, DBCP, PPPaE, PPTP, USB3G								
TOMP Settings	or LITP by slick the item	or LITP by click the item value of WAN Access type.							
- WAN Interface	WAN Access Tune	19TH							
Fireual Bart Eitaina	HALF HELEN LEPT	Les II							
- P Filtering	IP Address	Address: 172.1.1.2							
MAC Filtering	Subnet Mark:	255,255,255.0	1						
URL Filtering	Server IP Address:	172.1.1.1							
DMZ	Uper Name:								
QoS	Paumard:								
Route Setup	Connection Type:	Continuous	Connect Deconnect						
Logost	Idle Time:	5	(1-1000 minutes)						
	MTU Size:	1460	(1400, 1460 bynes)						
	C Attain DNS Automa	etically							
	. Set DNS Manually								
	DNS 1:								
	DNS 2:								
	DINS 3:								
	Class MAC Address: 00000000000								
	E Inable uPNP								
	Enable IGMP Preny								
	Enable Ping Acces	ii on WAN							
	Enable Web Serve	r Access in WA	N						
	Taskie Price part	through an VPN	connection						
	Enable L2TP gans	through on VPN	connection						
	Table IPd ass d	brough on VPN	connection						

MTU Size: Fill in the MTU size of MTU Size. The default value is 1400.

Request MPPE Encryption: Click the checkbox to enable request MPPE encryption.

Attain DNS Automatically: Click to select getting DNS address for L2TP support. Please select Set DNS Manually if the L2TP support is selected.

Set DNS Manually: Click to select getting DNS address for L2TP support.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the **Apply Changes** button to complete the new configuration setting. **Reset:** Click the **Reset** button to abort change and recover the previous configuration setting.

[USB3G]

USB3G: This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point.

User Name: If you select the USB3G support on WAN interface, fill in the user name and password to login the USB3G server.

Password: If you select the USB3G support on WAN interface, fill in the user name and password to login the USB3G server.

Connection Type: Select the connection type from pull-down menu. There are **Continuous**, **Connect on Demand** and **Manual** three types to select.

- Continuous connection type means to setup the connection through USB3G protocol whenever this WLAN AP Router is powered on.
- Connect on Demand connection type means to setup the connection through USB3G protocol whenever you send the data packets out through the WAN interface; there are a watchdog implemented to close the USB3G connection while there are no data sent out longer than the idle time set.
- Manual connection type means to setup the connection through the USB3G protocol by clicking the Connect button manually, and clicking the Disconnect button manually.

Idle Time: If you select the USB3G and **Connect on Demand** connection type, fill in the idle time for auto-disconnect function. Value can be between 1 and 1000 minutes.

MTU Size: Fill in the MTU size of MTU Size. The default value is 1490.

Attain DNS Automatically: Click to select getting DNS address for *DHCP* support. Please select *Set DNS Manually* if the *DHCP* support is selected.

Set DNS Manually: Click to select getting DNS address for DHCP support.

DNS 1: Fill in the IP address of Domain Name Server 1.

DNS 2: Fill in the IP address of Domain Name Server 2.

DNS 3: Fill in the IP address of Domain Name Server 3.

Clone MAC Address: Fill in the MAC address that is the MAC address to be cloned.

Enable uPNP: Click the checkbox to enable uPNP function.

Enable IGMP Proxy: Click the checkbox to enable IGMP Proxy.

Enable Ping Access on WAN: Click the checkbox to enable WAN ICMP response.

Enable Web Server Access on WAN: Click the checkbox to enable web configuration from WAN side.

Enable IPsec pass through on VPN connection: Click the checkbox to enable IPSec packet pass through.

Enable PPTP pass through on VPN connection: Click the checkbox to enable PPTP packet pass through.

Enable L2TP pass through on VPN connection: Click the checkbox to enable L2TP packet pass through.

Apply Changes: Click the **Apply Changes** button to complete the new configuration setting. **Reset:** Click the **Reset** button to abort change and recover the previous configuration setting.

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TOMP Settings	or LITP by slick the item	value of WAN.	Access typ	*.			- 11
WAN Interface		100000	1000				
Tireval	WAN Access Type:	USB3G	•				- 11
Part Filtering P Filtering	Uper Name:		11				- 11
MAC Filtering	Parrward:						- 11
Part Farwarding URL Filtering	PIN:						- 11
DMZ	APN:	internet					- 11
QoS	Dial Number:	*99#					- 11
Route Setup	Connection Type:	Continuous		· Correct	Deconnect		- 11
Logout	Idle Time:	5	(1-1000 m	(retain)	31		- 11
	MTU Size:	1490	(1470.149	() bytec)			
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	Enable PPTP pass	through an VPN	connectio				
	Enable L2TP pass	through on VPN	connection				1
	E Enable IPv6 pass d	brough on VPN of	onnection				

3.6 Firewall

3.6.1 Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

C Realtek WLAN AP Webserver	- Windows Internet Explorer
G - http://192.168	Al 1/home.asp 🔹 💀 😽 🗶 🦉 Live Search 🖉 🕈
🖕 Favoritas 🛛 🖕 🔊 Sugger	tad Sites 🖛 🔊 Web Sice Gallery 🖛
Bealtek WLAN AP Webserver	🛗 = 🔯 - 🖾 🖶 = Baga = Safaty = Tgoh = 🔞 =
9	WebServer
GOAHEAD Site contents: Setup Wizard Operation Mode Wreless TCP/IP Settings Port Filtering	Port Filtering Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network. Enable Part Filtering
Priteing MAC Filtering Port Forwarding URL Filtering DMZ VLAN QoS	Port Range: - Protocol: Both - Comment: Apply Changes Reset
	Current Filter Table: Port Range Protocol Comment Select
	Delete Selected Delete All Reset
	🕒 Internet Protected Model On 🦓 👻 🔍 100% 👻

Enable Port Filtering: Click to enable the port filtering security function.

Port Range/Protocol/Comments: To restrict data transmission from the local network on certain ports, fill in the range of start-port and end-port, and the protocol, also put your comments on it. The *Protocol* can be TCP, UDP or Both. *Comments* let you know about whys to restrict data from the ports.

3.6.2 IP Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

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	WebServer	
Site contents: Setup Wizard Operation Mode Wireless TCP/IP Settings Part Filtering Part Filtering Part Filtering Part Filtering Part Forwarding Part Forwarding Part Forwarding Part Forwarding Part Filtering Part Forwarding Part Forward Part F	Image: Delete All Protect Image: Delete All Reset	
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Enable IP Filtering: Click to enable the IP filtering security function.

Local IP Address/Protocol/Comments: To restrict data transmission from local network on certain IP addresses, fill in the IP address and the protocol; also put your comments on it. The *Protocol* can be TCP, UDP or Both. *Comments* let you know about whys to restrict data from the IP address.

3.6.3 MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

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	VebServer	
Site contents: Setup Wizard Deparation Mode Wireless TCP/IP Settings Port Filtering Port Filtering Port Filtering Port Forwarding Port Forwarding Port Forwarding Drt Eitering VLAN QoS Route Setup Management Logout	MAC Filtering Entries in this table are used to restrict certain types of data packets from your I to Internet through the Gateway. Use of such filters can be helpful in securing o your local network. Enable MAC Filtering MAC Address: Comment: Apply Changes Reset Comment Delote Selected Delote AI Reset	local network or restricting
Done	Internet Protected Model On	Q • Q 100% •

Enable MAC Filtering: Click to enable the MAC filtering security function.

MAC Address/Comments: To restrict data transmission from local network on certain MAC addresses, fill in the MAC address and your comments on it. *Comments* let you know about whys to restrict data from the MAC address.

3.6.4 Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

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Scheresson Site contents Setup Wizard Operation Mode Wineless TCPVP Settings Port Filtering Port Filtering Port Filtering Port Forwarding DMZ DMZ VLAN CodS Route Setup Management Logout	Port Forwa Entries in this table a machine behind the 1 server like a web serv forwall Dakke Port For P Addresse Apply Changes Carrent Port Forwar Local P Addresse	Arding Lev you to automatically redirect common retwork services to CAT three estings are only accounty if you with to b or or mail server on the provide local network behind your Gain marding Protocol: Both - Part Ranger Ranat Ang Table: Prement Part Range Common 2	a apocaliz total access used of waty'n NAT

Enable Port Forwarding: Click to enable the Port Forwarding security function.

Local IP Address/Protocol/Port Range/Comment: To forward data packets coming from WAN to a specific IP address that hosted in local network behind the NAT firewall, fill in the IP address, protocol, port range and your comments. The *Protocol* can be TCP, UDP or Both. The *Port Range* is for data transmission. *Comments* let you know about whys to allow data packets forward to the IP address and port number.

3.6.5 URL Filter

URL Filtering is used to restrict users to access specific websites in internet.

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GCAHEAD Sile conferits Setup Wizard Operation Mode Wineless TCPVP Settings Port Filering Port Filering Port Filering DMZ VLAN CoS Route Setup Macagement	URL Filtering URL filtering URL filtering Easke URL filtering URL Address Apply Changes Fasts Option Filter Table Detete Statisched Detete Statisched	ack these UTLs which
Dane	🚇 Internet Protected Mode: On	G + 110% +

Enable URL Filtering: Click to enable the URL Filtering function. **URL Address:** Add one URL address.

3.6.6 DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.



Enable DMZ: Click to enable the DMZ function.

DMZ Host IP Address: To support DMZ in your firewall design, fill in the IP address of DMZ host that can be access from the WAN interface.

3.6.7 VLAN

Enter in below table are used to configure VLAN settings. VLANs are created to provide the segmentation services traditionally provided by routers. VLANs address issue such as scalability, security, and network management.

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Franker VIDAN AP WEDBING					100.000.000	ages gains	y e igeo e	
G 1	WebS	erver						
GOAHEAD		and the second second						
Site contents: Setup Wizard	VLA	N Settings						
Operation Mode	Entries in	below table are used to conf	ig vian settings. 1	LANsa	re created to pro-	vide the		
TCP/IP Settings	segments security.	tion services traditionally per and network nanagement.	ivided by routers	VLANS	address issues	such as sealat	sility,	
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- Port Filtering	Tes Inc.	hie VLAN						
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DM2 VLAN		Ethemet Port1	LAN	ST.S.		0 -	10.00	
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		Virtual AP3	LAN		0.	0 -		
		Virtual AP4	LAN		0	0 -	B.S.	
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3.7 QoS

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

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S V	VebServer		
GOAHEAD	1.000		
Site contents:	QoS		
Setup Wizard Operation Mode	Entries in this table improve your ordin	e gassing experience by ensuring that your game traffic is	
TCP/IP Settings	prioritized over other network traffic, so	ich as FIP er Web.	
Frond	Table Ox5		
Route Setup	Automatic Uplink Speed		
Mariagement Dogout	Manual Uplink Speed (Khps): 972		
1977 (A. 1978 (A. 17)	Automatic Devaliak Speed		
	Manual Downlink Speed (Khps): 512		
	Quốt Rale Serting: Address Type: Local IP Address: MAC Address: Made: Uplink Bandwidth (Khys):	IP DMAC Guaranteed maximum bandwidth +	
	Devaliak Bandwidth (Khps):		
	Counsent:	L	
	Apply Changes Reset		
	Carrent QuS Rules Table:		
	Local IP Address MAC Address	Mode Uplish Devalish Comment Select	
	Oviete Selected Delete	All Renet	

How to setup your QoS:

- 1. In **QoS** Setup Section, **Enable QoS** feature.
- 2. Choose Uplink & Downlink Speed: "Automatic" or "Manual"
- 3. Select Address Type: "IP" or "Address"
- Configure QoS Rules Mode("Guaranteed Minimum bandwidth" & "Restricted Maximum bandwidth"), Uplink/Downlink Bandwidth, Comment.
- 5. Click "Apply Changes" to save QoS configurations.

3.8 Route Setup

This page is used to setup dynamic routing protocol or edit static route entry.

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🚖 Favoritas 🛛 🙀 🗑 Supported S	Stas 🔹 😰 Web Sice Gallery 🔹	
Realter WLAN AP Webserver	🖓 + 🖾 + 🖂 🖶 + Bage + Safety + Ty	ph+ @+
G V	VebServer	
GOAHEAD	28 V. W. BORN	
Site contents:	Routing Setup	
Operation Mode Wireless	This page is used to setup dynamic routing protocol or edit static route entry.	
TCP/IP Settings	Tashle Dynamic Route	
- QoS	NAT: @ Enabled O Disabled	
Route Setup	Transmit: @ Disabled @ EUP 1 © EUP 2	
Logout	Receive: @ Disabled @ RIP 1 @ RIP 2	
	Apply Changes Reset	
	Table Static Route	
	IP Address:	
	Subnet Mark:	
	Gateway:	
	Metric	
	Interface:	
	Apply Changes Reset Show Route Table	
	Statis Route Table:	
	Destination IP Netmank Gateway Metric Interface Select	
	Provide and the second s	
	Danes Ar Beast	
		-
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[Dynamic Route]

Dynamic routing is a technique developed to automatically adjust routing tables in the event of network failures. The most common dynamic routing protocols is RIP (Routing Information Protocol), which is very common on small networks.

[Static Route]

It menu allows you to define your own static routes for network traffic. Follow the instructions below to define a static router:

- 1. Enter the target IP address in the textbox near 'IP Address'.
- 2. Enter the subnet mask in the textbox near 'Subnet Mask'.
- 3. Enter the gateway IP address in the textbox near 'Gateway'.
- 4. Enter the number of 'hops' in the textbox near '**Metric**' (normally you can set the value to '0').
- 5. Select the correct port type in the dropdown box near 'Interface'.
- 6. Click the 'Apply Changes' button to add the route.

3.9 Management

3.9.1 Status

This page shows the current status and some basic settings of the device, includes system, wireless, Ethernet LAN and WAN configuration information.



[System]

Uptime: It shows the duration since WLAN AP Router is powered on.

Firmware version: It shows the firmware version of WLAN AP Router.

[Wireless configuration]

Mode: It shows wireless operation mode

Band: It shows the current wireless operating frequency.

SSID: It shows the SSID of this WLAN AP Router. The SSID is the unique name of WLAN AP Router and shared among its service area, so all device sat tempts to join the same wireless network can identify it.

Channel Number: It shows the wireless channel connected currently.

Encryption: It shows the status of encryption function.

Associated Clients: It shows the number of connected clients (or stations, PCs).

BSSID: It shows the BSSID address of the WLAN AP Router BSSID is a six-byte address.

[LAN configuration]

IP Address: It shows the IP address of LAN interfaces of WLAN AP Router.

Subnet Mask: It shows the IP subnet mask of LAN interfaces of WLAN AP Router.

Default Gateway: It shows the default gateway setting for LAN interfaces outgoing data packets.

DHCP Server: It shows the DHCP server is enabled or not.

MAC Address: It shows the MAC address of LAN interfaces of WLAN AP Router.

[WAN configuration]

Attain IP Protocol: It shows how the WLAN AP Router gets the IP address. The

IP address can be set manually to a fixed one or set dynamically by DHCP server or attain IP by PPPoE / PPTP connection.

IP Address: It shows the IP address of WAN interface of WLAN AP Router.

Subnet Mask: It shows the IP subnet mask of WAN interface of WLAN AP Router.

Default Gateway: It shows the default gateway setting for WAN interface outgoing data packets.

MAC Address: It shows the MAC address of WAN interface of WLAN AP Router.

3.9.2 Statistics

This page shows the packet counters for transmission and reception regarding to wireless, Ethernet LAN and Ethernet WAN networks.

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6 Realtek WLAN AP Webserver		<u>6</u>	• 📾 • 🖬 🖶 •	Page • Safety • Tools • 🔞 •
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Site contents:	Statistics			
Setup Wizard	Statistics			
Operation Mode	This page shows the	packet counters for transm	uission and reception rea	arding to wireless
- Wireless	and Ethemet network	5.		
— TCP/IP Settings				
Firewall				
- QeS	Window F 4 W	Sent Packets	55	
- Management	Wireless LAD	Received Packets	290	
Status	T-1	Sent Packets	2014	
- Statistics	Linernet LAN	Received Packets	1517	
- DONS		Sent Packets	0	
Time Zone Setting	Ethernet WAN	Received Packets	0	
Denial of-Service				
Log	Retresh			
Save/Reload Setting				
Password				
Logout				
7 N 1				
Done		😜 Internet Pro	tected Mode: On	

[Wireless LAN]

Sent Packets: It shows the statistic count of sent packets on the wireless LAN interface.

Received Packets: It shows the statistic count of received packets on the wireless LAN interface.

[Ethernet LAN]

Sent Packets: It shows the statistic count of sent packets on the Ethernet LAN interface. *Received Packets:* It shows the statistic count of received packets on the Ethernet LAN

interface.

[Ethernet WAN]

Sent Packets: It shows the statistic count of sent packets on the Ethernet WAN interface.

Received Packets: It shows the statistic count of received packets on the Ethernet WAN interface.

Refresh: Click the refresh the statistic counters on the screen.

3.9.3 DDNS

This page is used to configure Dynamic DNS service to have DNS with dynamic IP address.

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Site contents: Solup Wizard Operation Mode Wireless TCP/IP Settings Frewall	Dynamic D Dynamic DNS is a set (an UEL) to go with t	NS Setting wice, that provides you hat (possibly eventhan)	with a valid, unchanging, internet domain name jing) (P-oddress.	
OaS Route Setup Nonopennent Status Status DONS DINS Denial of Sonice	Exable DONS Service Provider : Donain Name : User Name Email: Paurwork/Key:	DynDNS +]		
Log Upgrade Firmware SawiFalaad Setting Presword Logout	None For TEO, you son ke For DynDNS, you to Apply Change	ne a 30 days free trial in crease your DynDNS Repet	here or humage your 720 account in <u>canifol partn</u> account h <u>ere</u>	ſ
			G Internet Protected Mode: On	G . \$100% .

Enable DDNS: Click the checkbox to enable DDNS service.

Service Provider: Click the drop down menu to pickup the right provider.

Domain Name: To configure the Domain Name.

User Name/Email: Configure User Name, Email.

Password/Key: Configure Password, Key.

3.9.4 Time Zone Setting

Click the Reset button to abort change and recover the previous configuration setting.

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Setup Wizard	THIC LONG	ocum					
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TCP/IP Settings	internet.					-	
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- Management		Copy Computer	Tine				
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Current Time: It shows the current time.

Time Zone Select: Click the time zone in your country.

Enable NTP client update: Click the checkbox to enable NTP client update.

NTP Server: Click select default or input NTP server IP address.

Apply Change: Click the Apply Changes button to save and enable NTP client service.

Reset: Click the *Reset* button to abort change and recover the previous configuration setting.

Refresh: Click the refresh the current time shown on the screen.

3.9.5 Denial-of-Service

This page is used to enable and setup protection to prevent attack by hacker's program. It provides more security for users.

Enable DoS Prevention: Click the checkbox to enable DoS prevention.
Whole System Flood / Per-Source IP Flood...: Enable and setup prevention in details.
Select ALL: Click the checkbox to enable all prevention items.
Clear ALL: Click the checkbox to disable all prevention items.
Apply Changes: Click the Apply Changes button to save above settings.

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Site contents:	Denial of Service						
Operation Mode Wireless	A "denial-af-service" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service.						
TCP/IP Settings							
QoS.	Enable DoS Prevention						
Route Setup	Whole System Flaod: SW	0	Packets/Second				
Status	Whole System Flood: FIN	0	Packets/Second				
Statistics	Whole System Flood UDP	0	Packets/Second				
Time Zone Setting	Whole System Flood: ICMP	0	Packets/Second				
Denial-of-Service	Per-Searce IP Flood: SYN	10	Packets/Second				
Log Upgrade Firmware	Per-Searce IP Flood: FIN	10	Packets/Second				
Save/Reload Setting	Per Saurce IP Flood: UDP	0	Packets Second				
Password Logout	Per Service IP Flood: ICMP	10	Bachata Namad				
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	Apply Changes						
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3.9.6 Log

This page is used to configure the remote log server and shown the current log.

Enable Log: Click the checkbox to enable log. System all: Show all log of wireless broadband router. Wireless: Only show wireless log DoS: Only show Denial-of-Service log Enable Remote Log: Click the checkbox to enable remote log service. Log Server IP Address: Input the remote log IP address. Apply Changes: Click the *Apply Changes* button to save above settings. Refresh: Click the refresh the log shown on the screen. Clear: Clear log display screen.



3.9.7 Upgrade Firmware

This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.



Select File: Click the *Browse* button to select the new version of web firmware image file.

Upload: Click the **Upload** button to update the selected web firmware image to the WLAN Broadband Router.

Reset: Click the *Reset* button to abort change and recover the previous configuration setting.

3.9.8 Save/Reload Setting

This page allows you save current settings to a file or reload the settings from the file that was saved previously. Besides, you could reset the current configuration to factory default.



Save Settings to File: Click the Save button to download the configuration parameters to your personal computer.

Load Settings from File: Click the Browse button to select the configuration files then click the Upload button to update the selected configuration to the WLAN Broadband Router.

Reset Settings to Default: Click the Reset button to reset the configuration parameter to factory defaults.

3.9.9 Password

This page is used to set the account to access the web server of Access Point. Empty user name and password will disable the protection.

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S 1	VebServer				
GOAHEAD Site contents: Setup Wizard Operation Mode Wireless TCP/IP Settings Firewall QoS Route Setup Status Status Status DDNS Time Zone Setting Denial-of-Senice Log Upgrade Firmware Save/Reload Setting Password Logout	Password Se This page is used to se name and password wi User Name: New Password: Confirmed Password: Apply Changes	etup t the account to access the disable the protection.	se web server of Access	ı Point. Empty v	234F
Cone		latemet Prote	cted Mode: On	- Q -	\$100% ·

User Name: Fill in the user name for web management login control.

New Password: Fill in the password for web management login control.

Confirmed Password: Because of the password input is invisible, fill in the password again for confirming purpose.

Apply Changes: Clear the User Name and Password fields to empty, means to apply no web management login control. Click the Apply Changes button to complete the new configuration setting.

Reset: Click the Reset button to abort change and recover the previous configuration setting.