802.11g Wireless VPN Router W441A

User's Manual

FCC Certifications



Federal Communication Commission Interference Statement

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 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.

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.

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.

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 minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

CE Mark Warning

€€

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class B for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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. No part of this document can be copied or reproduced in any form without written consent from the company.

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Unpacking Information

Thank you for purchasing the product. Before you start, please check all the contents of this package.

The product package should include the following:

- 1. One Wireless VPN Router
- 2. One power adapter
- One User Manual (CD)
 One detachable antenna

Introduction To Wireless Router

General Description

The Wireless Router built-in with 4-port 10/100Mbps Fast Ethernet Switch is the latest generation of Wireless router product for Home/Office and SOHO users. This full-feature and self-contained compact Wireless Router will be fully for broadband access in both of LAN and Wireless environment. This device has been specifically designed to provide LAN and Wireless users the most cost-effective method with multiple accesses to the Internet at the cost of a single public IP address (IP Sharing) and enjoy the true Plug-and-Play installation. Moreover, the built-in 4-port 10/100Mbps switch lets users plug the network cable into the device without buying additional switch.

This device is also an Access Point. It has a built-in wireless LAN. Users can connect to Internet using wireless network interfaces anywhere within the range of its radio transmission. It's ideal for SOHO users who require instant and convenient access to Internet without the restriction of connecting cables.

The friendly WEB-based graphics interface for setup makes any inexperienced users soon enter plug-and-play operation. Embedded DHCP server simplified IP address management and no MIS people needed for daily technical services. What is more, NAT/firewall is also implemented on this compact Router Box for protecting whole LAN from outside attack.

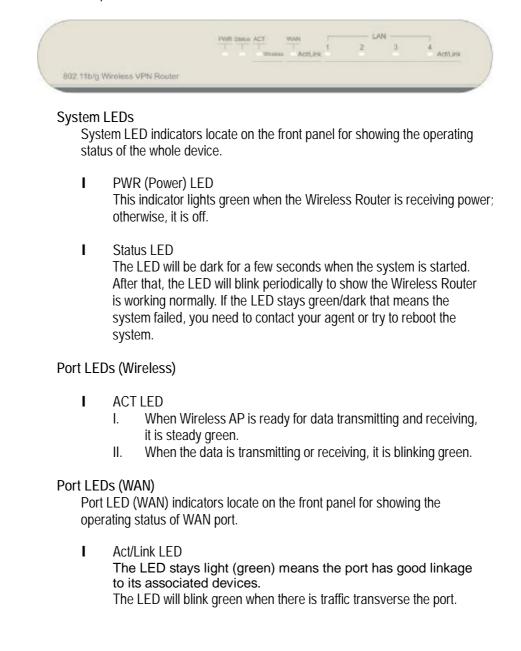
Key Features

The switch provides the following key features:

- **n** Complies with IEEE 802.11b/g wireless standards
- n Provides one 802.11b/g wireless Reverse SMA detachable antenna
- n High speed transfer data rate up to 54Mbps
- **n** Supports turbo mode for 72 Mbps data transfer
- **n** Supports wireless data encryption with 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 and AES functions
- **n** Supports system log
- n Supports authentication for wireless connectivity based on ESSID
- **n** Provides MAC access control and hidden SSID function
- **n** WDS supported with WEP, TKIP and AES encryption
- n Supports NAT/NAPT IP Sharing
- n Supports Static IP, PPPoE, PPTP, & DHCP client
- n SPI Anti-DoS Firewall; Virtual DMZ; DNS relay; UpnP
- n Support VPN
- n Provides DHCP server
- **n** Supports VPN pass through
- **n** Supports ALG for FTP, NetMeeting, VPN pass-through, DDNS (DynDNS, TZO)
- **n** Supports firmware upgrade function via Web
- n Compliant with FCC Part 15.247 for US, ETS 300 328 for Europe
- **n** Flash : 2MB NOR type, SDRAM : 16MB
- n Certifications : FCC Class B, CE Mark, VCCI Class B

The Front Panel

The front panel of the Wireless Router is shown below.



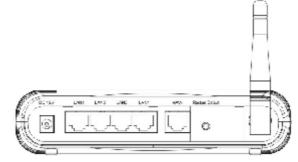
Port LEDs (LAN)

Port LEDs (LAN) indicators locate on the front panel for showing the operating status of 10/100Mbps Fast Ethernet switching ports.

I Act/Link LED Every port has a Act/Link LED. Steady green (link state) indicates that the port has good linkage to its associated devices. Flashing green indicates that the port is receiving or transmitting data between its associated devices.

The Rear Panel

The rear panel of the Wireless Router is shown below



Power Connection

Plug the circle end of the power adapter firmly into the rear panel of the Wireless Router, and the other end put into an electric service outlet then the system is ready.

Placement (Optional)

There are three ways to place the Router. The first way is to place the Router horizontally on a surface. The second way is to attach the router to the wall. The third way is to stand the Router vertically on a surface. These options are explained in further detail below.

Desktop Option

- 1. The Router has one plastic stand that can be divided into two parts.
- 2. Combine one part of stand with the side of router.
- 3. Do the same with the second part.
- 4. Place the Router

Wall-mount option

Before attach this router on the wall, you have to finish the desktop option steps first.

- 1. Select a location with access for cables and a power outlet.
- 2. Unplug the unit. Place it upside down on a flat surface and mark the two holes for anchors.
- 3. Installing the Wall mount anchor (plastic) into the wall with tools such as drill or hammer.
- 4. Insert the provided screws in each hole of the stand parts.
- 5. Attaches the unit to the anchors on the wall.

Stand Option

- 1. The Router includes two stand parts.
- 2. Combine two parts into one stand. Combine it with the side of router near the power port. Push the stand up to snap it into place.
- 3. Place the Router.

Restore Default Button

- 1. Push the button for more than 5 seconds and then release it, the system will return to factory default setting. In the meantime, system rewrites flash to default value and Status LED halts for a while. Approximately 60 seconds later, the Status LED blinks green periodically, now the whole system parameters have returned to factory default value. If the process has been interrupted by any reason (power off...), the system will fail. Before performing the process, ensure a safe operating environment please !
- 2. To reboot the Router, Press the button for 2-5 seconds and then release it, and all the setting won't be erased. Wait for the Router to complete the reboot, and then you can start to use it.

Warning: Incomplete factory setting recovery procedure will cause the Wireless Router malfunction! If you are unfortunately in this situation, do not try to repair it by yourself. Consult your local distributor for help!

Installing And Using Wireless Router

This Chapter provides a step-by-step guide to the installation and configuration of the Wireless Router. We suggest you go over the whole chapter and then do more advanced operation.

Network configuration setup

Steps to build up the network:

- Ø Connect the ADSL or Cable modem to the Ethernet WAN port on the back of the Wireless Router by using the UTP cable. Ø Connect the phone line from the wall socket to the line-in port on the ADSL
- modem, or the coaxial cable to the line-in port on the Cable modem.
- Ø Plug in the power adapter to the modem and turn on the power. Install the Ethernet card into the computer by referring to the User Guide that came with the card.
- Ø Connect the computer to the Wireless Router by using standard twisted-pair Ethernet cable from the computer's Ethernet card to an 10/100Mbps Ethernet port on the back of the Wireless Router.
- Ø Plug-in the power adapter to the Router and the other side to the wall outlet.

Computer configuration setup

In order to communicate with this Wireless Router, you have to configure the IP addresses of your computer to be compatible with the device. The router supports DHCP server and it is enabled as default. Users that configure your IP address as "Obtain an IP address automatically" may skip the following IP configuration instruction.

Note:

- 1. The default network setting of the device: IP address: 192.168.1.1 Subnet Mask: 255.255.255.0 DHCP Server: enabled
- In the following TCP/IP configuration guide, the IP address "192.168.1.2" is assumed to be your IP address if you want to specify IP addresses manually. Please DO NOT choose 192.168.1.1 for the IP address (192.168.1.1) has been set as the default IP for this device.
- 3. The following TCP/IP configuration guide uses windows XP as the presumed operation system.

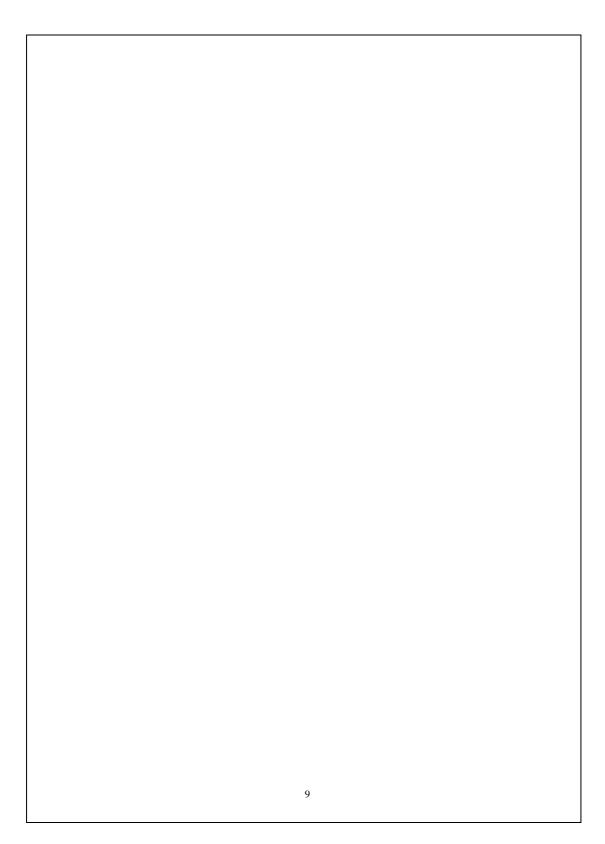
Procedures to configure IP addresses for your computer

1. If you are in Classic Start menu view, click Startà Settingsà Control Panelà Network Connections.

If you are in Start menu view, click Startà Control Panelà Network Connections.

2. Double click "Local Area Connection"

Contract Conversions		- C ~
10 M	Pi er Hele Named Jahrson	
wheet fails	S- management	
State a test scientifict		
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Result-Cyligad		
Hill Barris FCL Peak Filler ont-Subgime		



3.	Choose Internet Prote	ocol (TCP/IP) and	I click Properties.
----	-----------------------	-------------------	---------------------

Connect	using:		
🕎 Sis	- 6 900-Based	PCI Fast Ethernet A	Adapter
			Configure
This c <u>o</u> ni	nection uses	the following items:	
	Client for Mic	rosoft Networks	
		er Sharing for Micro	soft Networks
🗹 📙	QoS Packet	Scheduler	
V 3-	Internet Proto	ocol (TCP/IP)	
l <u>n</u> :	stall	<u>U</u> ninstall	
l <u>n</u> : Descrip		<u>U</u> ninstall	P <u>r</u> operties
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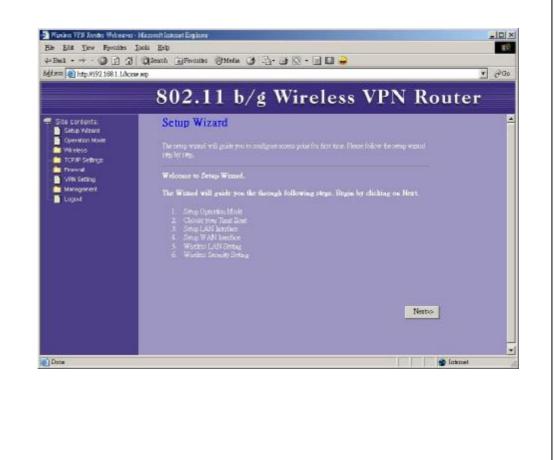
4. You may choose "Obtain an IP address automatically"(recommend) to get IP address automatically or choose "Use the following IP address" to specify IP addresses manually. Please click the OK button after your configuration.

	autonalically if your network suppor ad to ask your network administrator
Ogbtain an IP address autom	atically
OUge the following IP address	e]
JP address:	192 . 168 . 1 . 2
Sybnet mask:	255 . 255 . 255 . 0
Delauk gateway:	192 168 1 254
O Obren DRS server address	autorsalically
O Use the following DNS serv	er addresses:
Befered DNS server	101122-00
Alternate DNS server.	
	Advance
	Langence
	OK C

	e the whole network operate successfully, it is nec /ireless Router through your computer has a WEB e follow up the steps listed below.	
	he Internet WEB browser icon on your desktop scr ommunicator 4.0 and Internet Explorer 3.0 or updat	
2. Type 192.168	8.1.1 into the URL WEB address location and press	s Enter.
about:blank - Microsoft	t Internet Explorer	_02
File Edit View Favor		1
🖶 Back 🔻 🔿 👻 😫	🖞 🖓 🧭 History 🛛 🖬 🎒	
Address http://192.168 3. The Usernam - Enter - Enter	a and Password Required window appears. admin in the User Name location (default value). admin in the Password location (default value). "OK" button	▼ ∂Go Uinks ³
Address http://192.168 3. The Usernam - Enter - Enter - Click	e and Password Required window appears. admin in the User Name location (default value). admin in the Password location (default value).	• 🖓 Go Links '
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Address http://192.168 3. The Usernam - Enter - Enter - Click	e and Password Required window appears. admin in the User Name location (default value). admin in the Password location (default value). "OK" button "OK" button "OK" button Please type your user name and password. Site: 192.168.1.1 Realm 802.11g Wireless Broadband Router	
Address http://192.168 3. The Usernam - Enter - Enter - Click	e and Password Required window appears. admin in the User Name location (default value). admin in the Password location (default value). "OK" button "OK" button rork Password Please type your user name and password. Site: 192.168.1.1 Realm 802.11g Wireless Broadband Router User Name admin	



After the password authorization, the Setup Wizard shows up as the home page of the Graphic User interface. You may click on each folder on left column of each page to get access to each configuration page.



Setup Wizard

If you are using the router for the first time, you may follow the procedures of the setup wizard to do a step-by-step configuration.

Note: The following instruction does an overall introduction to the Setup Wizard. For detail information to each item, please refer to instruction of each page.

1. To start the Setup Wizard, click the "Next" button to proceed.

	d will guide you to configure access point for first time. Please wizard step by step.
Welcome to S	etup Wizard.
The Wizard w clicking on N	ill guide you the through following steps. Begin by ext.
1. Setup Op	eration Mode our Time Zone
5. Wireless	
	ACCURATE CONTRACTOR
5	ding operation mode and click "Next".
1. Operation	
1. Operation	Mode
1. Operation	Mode mode: to LAN and WLAN interface for NAT and heldging function. In this mode, the device is supposed to cannot to advance we ADEL/Cable Modern. The NA is enabled and PCL in finite LAN pices share the same IP to EP through WAN pice. The committion type can be setup in WAN page by using FPFOE, DHCF claim, FPTP claims or static IP. In this mode, all otherway pices and waveless intrafface are lendered signific and NAT function.
1. Operation You do a setup different • Gateway:	Mode modes to LAN and WLAN interface for NAT and building function. In fits mode, the device is supposed to connect to advance to a ADEL/Table Noders. The NA is enabled and PCs in from LAN port share the same TP to EP through WAN port. The connection sympose be setup in WAN page by using FFFOE, DHCF class. FPTP class or under IP.
1. Operation You do a setup different • Gateway:	Mode mode: to LAN and WLAN interface for NAT and heldging function. In this mode, the device is supposed to cannot to advance we ADEL/Cable Modern. The NA is enabled and PCL in finite LAN pices share the same IP to EP through WAN pice. The committion type can be setup in WAN page by using FPFOE, DHCF claim, FPTP claims or static IP. In this mode, all otherway pices and waveless intrafface are lendered signific and NAT function.
1. Operation You do a setup different • Gateway:	Mode mode: to LAN and WLAN interface for NAT and heldging function. In this mode, the device is supposed to cannot to advance we ADEL/Cable Modern. The NA is enabled and PCL in finite LAN pices share the same IP to EP through WAN pice. The committion type can be setup in WAN page by using FPFOE, DHCF claim, FPTP claims or static IP. In this mode, all otherway pices and waveless intrafface are lendered signific and NAT function.

ne Setting
system time by synchronizing with a public time server over the Internet.
lient update
: (GMT+08:00)Taipei
192.5.41.41 - North America 💌
Cancel < <back next="">></back>
ddress and subnet mask for connecting to the router in LAN.
face Setup
noe betup
gure the parameters for local area network which connects to the LAN port of
you may change the setting for IP addresss, subnet mask, DHCP, etc.,
192.168.1.1
255.255.255.0
Cancel < <back next="">></back>

•	ters from your		
4.	WAN Interf	ace Setup	
your	page is used to configu Access Point. Here yo the item value of WA1	ue the parameters for Internet network which connects to the WAN u may change the access method to static IP, DHCP, PPPoE or PP V Access type.	port of IP by
WAI	I Access Type:	Static IP	
	ddress:	10.10.10.1	
	et Mask: ult Gateway:	255.255.0.0	
Dera		168.95.1.1	
		Cancel < <back< td=""><td>Next>></td></back<>	Next>>
Select th	ne wireless pa	rameters that are used for associating with	
Select th click "N	•	_ ,	
	•	_ ,	,

6. Wir	eless Security Se	tup			
This page :	llows you setup the wirele yption Keys could prevent	ess security. T			
Encryption:	None				
		ļ	Cancel	< <back finis<="" td=""><td>shed</td></back>	shed

Operation Mode	
You can setup differer.	at modes to LAN and WLAN interface for NAT and bridging function.
9 Gateway:	In this mode, the device is supposed to connect to internet via ADSL/Cable Modern The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP clier PPTP client or static IP.
Bridge:	In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
Apply Change	Reset

IEEE802.11b/g wirele	t builds a wireless LAN and can let all PCs equipped with ss network adaptor connect to your Intranet. It supports MAC address filter to enhance the security of your wireless
Basic Settings	
You can set u Wireless Clier	p the configuration of your Wireless and monitor the nts associate with your AP.
Configuration	
Disable Wireless LA	N To Disable interface of Wireless LAN
Interface Band	To select a band for this device to match
Danu	802.11b, 802.11g or both.
Mode	Configure this device as AP, WDS or both.
SSID	The name of the wireless network
Country	Select the region you live.
Associated Clients	Click "Show Active Clients" button, then an
	"Active Wireless Client Table" will pop up. You
	can see the status of all active wireless
	stations that are connecting to the access
	point.
Enable Universal	Mark this checkbox to enable Universal
Repeater Mode	Repeater Mode which acts this device as an
	AP and client simultaneously.
SSID of Extended Interface	While you enable the Universal Repeater
Internace	Mode, you have to specify an SSID for the extended interface.
Click < Apply	changes> button at the bottom of the screen to save the
	rations. You can now configure other advance sections or
	router (with the advance settings in place)

ž Active Wireless Client Table

This is the window that pops up after clicking the "Show Active Clients" button.

MAC Address	Tx Packet	Rr Parket	Tx Rate (Mhgs)	Power Saving	Expired Time (3)
00 v0/4::11 96 77	11	46	48	-	300

The number of transmitted packets that are sent out from this active wireless station. The number of received packets that are received by this active wireless station. The transmission rate
this active wireless station.
The transmission rate
1
Shows if the wireless client is in Power Saving mode
This is the time in second before dissociation. If the wireless keeps idle longer than the expired time, this wireless router will dissociate it. The wireless client station has to associate again when it is active.
Refresh the "Active Wireless Client Table".
Close the "Active Wireless Client Table".

Advanced Settings

You can set advanced wireless LAN parameters of this router. The parameters include Authentication Type, Fragment Threshold, RTS Threshold, Beacon Interval, Data Rate, Preamble Type, Broadcast SSID, IAPP and 802.11g Protection. We recommend not changing these parameters unless you know what changes will be there on this router.

Wireless Advanced Settings

	aly for more technically advanced users who have a sufficient knowledge about e settings should not be changed unless you know what effect the changes will have
on your Access Poir	

Authentication Type:	🗩 Open System 🔎 Shared Key 🔍 Auto
Fragment Threshold:	2346 (256-2346)
RTS Threshold:	2347 (0-2347)
Beacon Interval:	100 (20-1024 ms)
Data Rate:	Auto 💌
Preamble Type:	🖲 Long Preamble 🔍 Short Preamble
Broadcast SSID:	🗩 Enabled 🔎 Disabled
IAPP:	오 Enabled 🔎 Disabled
802.11g Protection:	🗩 Enabled 🔍 Disabled
RF Output Power:	♥100% ♥50% ♥25% ♥10% ♥5%
Turbo Mode:	Auto

Configuration

	Open System mode	Wireless AP can associate with this wireless router without WEP encryption.
Authentication Type	Shared Key mode	You should also setup WEP key in the "Security" page and wireless AP associating with this wireless router should use WEP encryption in the authentication phase.
	Auto	The wireless client can associate with this wireless router by using any one of these two Modes.

Fragment Threshold	To specifies the maximum size of packet during the data transition. The lower values you set, the worst performance i will be.	
RTS Threshold	If the packet size is smaller the RTS threshold, the wireless router will not send this packet by using the RTS/CTS mechanism.	
Beacon Interval	The period of time how long a beacon is broadcasted.	
Data Rate	The "Data Rate" is the data packets limitation this wireless router can transmit. The wireless router will use the highest possible selected transmission rate to transmit the data packets.	
Preamble Type	It defines the length of CRC block in the frames during the wireless communication. "Short Preamble" is suitable for heavy traffic wireless network. "Long Preamble" provides much communication reliability	
Broadcast SSID	If you enable "Broadcast SSID", every wireless station located within the coverage of this wireless router can discover this wireless router easily. If you are building a public wireless network, enabling this feature is recommended. Disabling "Broadcast SSID" can provide better security.	
IAPP	To enables multiple AP to communicate and pass information regarding the location of associated Stations.	
802.11g Protection	Some 802.11g wireless adapters support 802.11g protection, which allows the adapters searches for 802.11g singles only. Select the "Disabled" to disable supporting 802.11g protection or select "enable" to support this function.	
RF Output Power	Select the RF (Radio Frequency) power. The RF output power has positive correlation with signal strength.	
Turbo Mode	Some of our wireless adapters supports turbo mode, which provides a better connection quality. Select "Always" to support turbo mode or select "off" to turn it off . Select "Auto" turns it on or off automatically.	
	<apply changes=""> button at the bottom of the screen to save the above configuratio now configure other advance sections or start using the router.</apply>	

At the page, you car security of your Wire	e set up the WEP, WPA Encryption to ensure the eless.
Wireless Security	
	e wireless security. Turn on WEP or WPA by using It any unauthorized access to your wireless network.
Encryption: None	Set WEP Key
Use 802.1x Authentication	♥WEP 64bits ♥WEP 128bits
WPA Authentication Mode:	Enterprise (RADIUS) Personal (Pre-Shared Key)
WPA Cipher Suite:	OTKIP OAES
WPA2 Cipher Suite:	●TKIP ♥AES
Pre-Shared Key Format:	Passphrase
Pre-Shared Key:	
Enable Pre-Authentication	
Authentication RADIUS Server:	Port ¹⁸¹² IP address Password
Authentication RADIUS Server: Note: When encryption WEP Apply Changes Reset	Port ¹⁸¹² IP address Password Password
Authentication RADIUS Server: Note: When encryption WEP	
Authentication RADIUS Server: Note: When encryption WEP Apply Changes Reset Configuration	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the router.
Authentication RADIUS Server: Note: When encryption WEP Apply Changes Reset Configuration Encryption	To enable WEP, WPA, WPA2 and WPA2 Mixed encryption modes, select the option in the drop list. If you select none, any data will be transmitted without Encryption and any station can access the router. To enable the 802.1x, Click the check box of

WPA2 Cipher Suite	Select the WPA2 Cipher Suite to be TKIP or AES
Pre-Shared key Format	To decide the format, select what you need in the drop list.
Pre-shared Key	Enter the Pre-shared Key according to the pre-shared key format you select.
Enable Pre-Authentication	You can mark this checkbox to enable Pre-authentication after selecting Enterprise (RADIUS) WPA 2 authentication mode
Authentication RADIUS Sever	If you use RADIUS Sever to ensure your security, you have to set up the parameters in the item. To set up the Port, IP address and Password of your RADIUS, Enter the Port Number, IP and Password.

Click **<Apply Change>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router.

control list in this page	er of Access authentication of Stations, Set up the ge.
Wireless Acc	
addresses are in the a	red Listed', only those clients whose wireless MAC access control list will be able to connect to your Access Listed' is selected, these wireless clients on the list will not be Access Point.
Wireless Access (Control Mode: Disable
MAC Address:	Comment:
Apply Changes	Reset
Current Access Co	ontrol List:
MAC Addre	ss Comment Select
Delete Selected	Delete All Reset
Configuration	
Wireless Access Control Mode	Click on the drop list to choose the access control mode. You may select "Allow listed" to allow those allowed MAC addresses or select "Deny Listed" to ban those MAC addresses from accessing to this device.
MAC Address & Comment	To set up the Value of MAC Address & Comment; enter the MAC Address and Comment of station and click Apply Changes to save.
Current Access	To Delete the station on the list, Click the check box in the select item and click the "Delete
Control list	Selected". If you want to delete all stations on the list, click "Delete All" to remove all of them.

WDS Settings		
does. To do this, you must se	n uses wireless media to communicate with other APs, et these APs in the same channel and set MAC address th in the table and then enable the WDS,	like the Ethernet of other APs which
Enable WDS		
Add WDS AP: MAC.	Address	
Comm	ent e	
Apply Changes Re	set Security Show Statistics	
Current WDS AP List: MAC Address Delete Selected D		ect
Dene sentra	elete All Reset	
APs wirele Router are Comment click the c to save. To Delete click the "	Distribution System allows the router to essly. To make it work, you must ensure in the same Channel and add these A values into the WDS list. Don't Forget heck box of "Enable WDS" and press of the AP on the list, Click the check box Delete Selected". If you want to delete I" to remove all of them.	e that these APs a APs MAC Address to Enable the WE "Apply Changes" to in the select item

TCP/IP Setting

LAN Interface Setup

To set up the configuration of LAN interface, Private IP of you router LAN Port and Subnet mask for your LAN segment.

This page is used to Heat this may char	to configure the parameters for local area activatic which contains to the LAN post of your Access Print. net the acting for IP addition, only of math, DHOP, etc.		
IP Address	10107/142		
Subart Mark:	252552550		
DHCP Server	Conser 1922/2011/2011 - 1922/2011/2019		
Domain Name			
102.1d Spinar			
📕 Easter U			
Apply Change	s Rest		
Cor	figuration		
^D address	The IP of your Router LAN port (Default 192.168.1.1)		
ubnet Mask	Subnet Mask of you LAN (Default 255.255.255.0)		
HCP Server	To give your LAN Client an IP, you have to enable "DHCP Server". If not, manual setting up your client IP is necessary when you want to use the router as your client's default gateway.		
OHCP Client Range	Specify the DHCP Client IP address range. You can also click the "Show Client" button to listed those connected DHCP clients.		
omain Name	Specify a domain name of the device.		
02.1d panning tree	To prevent from network loops and preserve the quality or bridged network		
nable UPnP	Mark this checkbox to allow this router to be recognized by uPnP.		

WAN Interface S	iiii
Internet. You	ows users to configure those parameters for connecting to may select the WAN Access Type from the drop list and ameters for each mode.
Static IP M	lode
WAN Access	Type: Static IP 🔽
IP Address:	10.10.10.1
Subnet Mask:	255.255.0.0
Default Gatew	ray: 10.10.10.254
DNS 1:	168.95.1.1
DNS 2:	
DNS 3:	
Clone MAC A	ddress: 00000000000
and Default Gateway DNS 1, 2 and 3	To specify the DNS, and enter the DNS provided by yo
and Default Gateway	 that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3.
and Default Gateway DNS 1, 2 and 3 DHCP Clier	 that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3.
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty	that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. the Mode Type: DHCP Client
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty • Attain DNS A	that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. the Mode Type: DHCP Client Automatically
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty • Attain DNS A • Set DNS Mar	that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. the Mode Type: DHCP Client Automatically
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty • Attain DNS A • Set DNS Mar DNS 1:	y that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. at Mode ype: DHCP Client Automatically yually
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty • Attain DNS A • Set DNS Mar	y that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. at Mode ype: DHCP Client Automatically yually
and Default Gateway DNS 1, 2 and 3 DHCP Clier WAN Access Ty • Attain DNS A • Set DNS Man DNS 1: DNS 2:	y that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. ht Mode ype: DHCP Client • Automatically hually
and Default Gateway DNS 1, 2 and 3 DHCP Clien WAN Access Ty • Attain DNS A • Set DNS Man DNS 1: DNS 2: DNS 3:	y that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. ht Mode ype: DHCP Client • Automatically hually
and Default Gateway DNS 1, 2 and 3 DHCP Clien WAN Access Ty • Attain DNS A • Set DNS Mar DNS 1: DNS 2: DNS 3: Clone MAC Add	y that provided by your ISP. To specify the DNS, and enter the DNS provided by your ISP in DNS 1 2 3. ht Mode ype: DHCP Client • Automatically hually

PPPoE Mode	
WAN Access Type: 2005	= v
User Name: Password:	
Service Name: Connection Type: Corr	withe 🔽 Darrier Distance
Jdle Time: 5	(1-1000 minutes)
MTO Size: 1424	(1/ 00 1432 Syne)
 Attain DNS Automatic Set DNS Manually 	alty
DNS 1: 168 3	.L
DNS 2:	
DNS 3: Clone MAU Address: D	X+X(X)+X(2)
User Name, password	Fill in the User Name, password and service name that
and service name	provided by your ISP.
Connection Type	"Continuous" is for Always keep connection "Connect on demand" is for bill by connection time.
	You can set up the Idle time for the value specifies the
	number of time that elapses before the system
	automatically disconnects the PPPoE session.
	"Manual" To connect to ISP, click "Connect" manually
	from the WEB user interface. The WAN connection will not disconnected due to the idle timeout. If the WAN
	line breaks down and latter links again, the router will
	not auto-connect to the ISP.
Idle Time:	The value specifies the number of idle time
	that elapses before the system automatically
MTU Size	disconnects the PPPoE session. To Enable the Maximum Transmission Unit of Router
INTO SIZE	setup. Any packet over this number will be chopped up
	into suitable size before sending. Larger number will
	enhance the transmission performance.
	Enter your MTU number in the text-box to set the
Attain DNS automatically:	limitation. If your DNS provide by ISP is dynamic, choose
Attain DNS automatically.	"Attain DNS automatically
Set DNS Manually	To specify the DNS, and enter the DNS provided by
j	your ISP in DNS 1 2 3.

	WAN Access Type:	PPTP
	IP Address:	172.16.1.2
	Subnet Mask:	255.255.255.0
	Server IP Address:	172.16.1.1
	User Name:	adroin and a second
	Password:	*****
	MTU Size:	1452 (1400-1492 bytes)
	Attain DNS Autor	
	© Set DNS Manually	9 9
	DNS 1:	168.95.1.1
	DNS 2:	
	DNS 2.	
Server	DNS 3: ress, Subnet Mask, F IP Address, User U	ill in the IP address, Subnet Mask, Server IP Address, ser Name and password that provided by your ISP.
Server Name a	DNS 3: ress, Subnet Mask, F IP Address, User U ind Password ze Ta sa in e	be Enable the Maximum Transmission Unit of Router etup. Any packet over this number will be chopped up to suitable size before sending. Larger number will nhance the transmission performance.
Server Name a	DNS 3: ress, Subnet Mask, F IP Address, User U and Password ze Transi in e E	ber Name and password that provided by your ISP. To Enable the Maximum Transmission Unit of Router etup. Any packet over this number will be chopped up to suitable size before sending. Larger number will nhance the transmission performance. nter your MTU number in the text-box to set the
Server <u>Name a</u> MTU Si	DNS 3: ress, Subnet Mask, F IP Address, User U and Password ze Ta sa in e lim DNS automatically: If	be Enable the Maximum Transmission Unit of Router etup. Any packet over this number will be chopped up to suitable size before sending. Larger number will nhance the transmission performance.

There are some settings are able to be configured on each WAN access types:

types.	
Enable WeEnable IPsEnable PP	ng Access on WAN et Server Access on WAN from port : ⁸⁰⁸⁰ ecc pass through on VPN connection TP pass through on VPN connection TP pass through on VPN connection
Enable Ping Access on	Allow users on WAN to ping this device.
WAN	1 5
Enable Web Server Access	To Enable the user to access this Router through Internet,
on WAN from port	Enter the specific IP and the port number
Enable IPsec pass through	Mark the check box to enable IPsec pass through on VPN
on VPN connection	connection and clear the checkbox to disable.
1 0	Mark the check box to enable PPTP pass through on
on VPN connection	VPN connection and clear the checkbox to disable.
Enable L2TP pass through	Mark the check box to enable L2TP pass through on VPN
on VPN connection	connection and clear the checkbox to disable.
Clone MAC Address	When ISP use MAC address authentication (with DHCP),
	then the MAC address of the Ethernet card attached to
	your Cable modem must be registered with the ISP
	before connecting to the WAN (Internet). If the Ethernet
	card is changed, the new MAC address must be
	registered with the ISP.
	MAC cloning feature allows the MAC address reported by
	WAN side network interface card to be set to the MAC
	address already registered with the ISP eliminating the
	need to register the new MAC address with the ISP. This
	feature does not change the actual MAC address on the

address, enter it in the text box.

NIC, but instead changes the MAC address reported by Wireless Router to client requests. To Change the MAC

Firewall Configuration

Port Filtering

The firewall could not only obstruct outside intruders from intruding your system, but also restricting the LAN users.

Port Filtering To restrict certain type of data packets from your LAN to Internet through the Router, add them on the Current Filtering Table.

Ennes in this table are used to section costain types of data packets from your local activate to internet through the Greeney (be of such filters can be helpful to second g to restacting your local activate).	Port Filtering			
Enable Fort Filening Local Port Range: Protocol: Soft : Communant Apply Changes Reset Careent Filter Table:				Literare the cight the
Local Port Range: Protocol: Both 2 Commentat Apply Changes Beset Current Filter Table:	Gueway, the of such filles can be	belgaled to becoming on restate	tag your look armork.	
Comment Apply Changes Reset	Exable Port Filtening			
Apply Changes Reset	Local Port Range:	Protocal: Both	J	
Corrent Filter Table:	Compent			
Corrent Filter Table:				
	Abbla Cyarties Hieser			
Local Port Range Protocol Comment Select	Correct Filter Table:			
	Local Port Range	Protocol	Comment	Select
Deserversed Televist Reset	Deser Selected	Devel		

Configuration

STEPS	1.	Click the check box of "Enable Port Filtering" to enable the function.
	2.	Enter the Port range (EX 25-110), Protocol (UDP/TCP), and comment (EX. E-Mail)
	3.	To Delete the Port range on the list, Click the check box in the select item and click the "Delete Selected". If you want to delete all entries on the list, click "Delete All" to remove all of them.
		e> at the bottom of the screen to save the above configurations. You other advance sections or start using the router.

IP filtering

The Wireless Router could filter the outgoing packets for security or management consideration. You can set up the filter against the IP addresses to block specific internal users from accessing the Internet.

			ken from your local in be helpful in securing
🔲 Enable (P Filterin	1g		
-	145		
Loai IP Address:	Protoc	ol: Boh 🗾 Coma	nent:
	-	ol: Boh 🗾 Come	Deti:
Loal IP Address:	-	ol: But 🗾 Coma	neri:

Configuration

STEPS	1.	Click the check box of "Enable IP Filtering" to enable the function.
	2.	Enter the specific Local IP address (EX 10.10.3.9), Protocol (UDP/TCP), and comment (EX. Peter)
	3.	To Delete the IP address on the list, Click the check box in the select item and click the "Delete Selected". If you want to delete all entries on the list, click "Delete All" to remove all of them.

Click <Apply Change> at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router.

MAC filtering

The Wireless Router could filter the outgoing packets for security or management consideration. You can set up the filter against the MAC addresses to block specific internal users from accessing the Internet.

IAC Filtering	data packets from your local netwo	ork to Internet through the
ateway. Use of such filters can be helpful in securin,	g or restricting your local network.	
Enable MAC Filtering		
ocal MAC Address:	Comment:	
Apply Changes Reset		
urrent Filter Table: Local MAC Address	Comment	Select
	Committee	BLICCI
Delete Selected Delete All Reset		

Configuration

STEPS	1.	Click the check box of "Enable MAC Filtering" to enable the function.
	2.	Enter the specific MAC address (EX 00:0e:b6:a8:72), and comment (EX. Peter)
	3.	To Delete the MAC address on the list, Click the check box in the select item and click the "Delete Selected". If you want to delete all Entries on the list, click "Delete All" to remove all of them.

Click <Apply Change> at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router.

	: services to a specific machine behind e sort of server like a web server or n
if you wish to host some	e sort of server like a web server or n
Calendy 5 I will include.	
col: Both 🔽 Port Ra	ange:
Port Range	Comment Select

Configuration

STEPS	1.	Click the check box of "Enable port forwarding" to enable the function.
	2.	Enter the specific IP address (EX 10.10.10.10), Protocol (UDP/TCP), Port range (EX 25-110), and comment (EX. E-Mail)
	3.	To Delete the IP address on the table, Click the check box in the select item and click the "Delete Selected". If you want to delete all Entries on the table, click "Delete All" to remove all of them.
Click <ap< td=""><td>ply Cha</td><td>ange> at the bottom of the screen to save the above configurations.</td></ap<>	ply Cha	ange> at the bottom of the screen to save the above configurations.

		users to prevent of r will block those		•
keywor				
URL Filterin	ş			
URL, filter is used to de listed below. (EX. google; www.goo		ccessing the internet, Blc 99)	ck those URLs which	contain keywords
📕 Enable URL Fi	ltering			
URL Address:				
Apply Changes	Reset			
Current Filter Table:				
	URL Addre	\$\$		Select
Delete Selected	Delete All Re	set		

Enter the URL that is going to be banned.

"Delete All" to remove all of them.

Click <Apply Change> at the bottom of the screen to save the above configurations.

To Delete the URL on the table, Click the check box

in the select item and click the "Delete Selected". If you want to delete all URLs on the table, click

2.

3.

The virtual DMZ is used to enable protocols, which need to open ports of the router. The router will forward all unspecified incoming traffic to the host specified in this page.
Virtual DMZ
A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the virtual DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.
Enable Virtual DMZ
Virtual DMZ Host IP Address:
Apply Changes Reset

VPN Setting

VPN (Virtual Private Network) construct a virtual tunnel to a remote network, which prevents the connection from peeping and inspection. The data is encrypted with the encryption algorithm that you specified. To start configuring VPN, please mark the "Enable IPSPEC VPN" check box before any configuration.

Apply Changes	📕 Eashle NAT Traversal	Oceane RSA Ber Show RSA Public Key		
Gaunat VPN Connection Tabl	the state of the second s			
I Name Active	Local Address Remote Addr	ess Remote Gateway	States	
			- C	
			-	
		-	1	
		_		
		_		
Enable IPSEC VPN	Mark this check b	ox to enable VPN	I function of th	ne device.
	Click this check b	ox to perform NA	T traversal.	
Enable NAT Traversal				
	Click the two butto RSA key that you type for secure yo	generate. The R		
Generate\ Show	RSA key that you	generate. The R our VPN.		

VPN parameters co	onfiguration
VPN Setup	
 VPN Setup Eashie Tusa Connection Name Auth Type: Local Sile: Local Sile: Local P Address Local Soluer Ma Remote Soluer M Remote Soluer M Remote Soluer M Local ID Type Local ID Type Local ID Type Remote ID Type Remote ID Type Remote ID Key Management Connection Type EEF Prefibured Key Remote ECA Eeg Stemat 	PSK PSK Sebnet Address Sebnet Address Solution Address Solution Address Solution Address Solution Address Solution Address Solution Address Solution Address P P P Solution Address P Solution Address P P Solution Address P P P P P P P P P P
After clicking the "Ed	lit" button, you may configure this VPN tunnel.
Enable Tunnel 1	Mark this checkbox to enable this VPN tunnel and clear it to uncheck it.
Connection Name	Specify a name for this connection.
Auth Type	Select an authentication method for this VPN form the drop list.
Local Site	Specify the local network information.
Remote Site	Specify the remote network information.
Local /Peer ID	Select an information type for identification.
	<u> </u>

Key Management	IKE: Mark this check box to enable IKE. IKE (Internet Key Exchange) is a key exchange and authentication protocol used by IPsec. You may also click the "Advanced" button to do more advanced configuration for IKE.
	Connection Type: Select a connection to be a initiator in this VPN or a responder.
	ESP: Select the encryption and authentication algorithm form the drop list.
	Pre-Shared Key: Specify a pre-shared key for this VPN after selecting "PSK" in the "Auth Type" drop list.
	Remote RSA Key: Specify a RSA key for this VPN after selecting "RSA" in the "Auth Type" drop list.
	Status: Shows if this tunnel is connected or disconnected.

Advanced VPN Setting for IKE

This window allows users to configure advanced VPN settings for IKE. Please select encryption algorithm, authentication algorithm and key group from the drop list. Specify a key refreshing time.

innel 1	
Negetation Minde	Minande
	3068 ·
	MD6 ×
	DH2(modpl(04) -
	3600
3am I.	- Constant of the second se
	EXP
	10es 💽
	MD6
	20000
	Tourisade
	ON .

Management

Status

In the home page of the Wireless Router, the left navigation bar shows the options to configure the system. In the right navigation screen is the summary of system status for viewing the configurations.

System

Uptime	The period that you power the device on.
Firmware Version	The version of the firmware applied on this device.

I Wireless Configuration

Wireless Cornigura		
Mode	The operation mode of the wireless router	
Band	The performing band of this wireless router	
SSID	The name of this wireless network	
Encryption	The security encryption status of this wireless network	
BSSID	The Basic Service Set Identity of this router.(This parameter is the same as the MAC address of LAN port)	
Associated Clients	The number of associated clients.	
LAN Configuration		
IP Address	IP Address of router	
Subnet Mask	Subnet Mask of the router	
DHCP Server	Enabled or Disable of DHCP	
MAC Address	MAC Address of LAN-port	
WAN Configuration		
Attain IP Protocol		
IP Address	IP address of WAN-port	
Subnet Mask	Subnet Mask of WAN-port	
Default Gateway	Default Gateway of WAN-port	
MAC Address	MAC Address of WAN-port	
	41	

eless, Ethernet	can monitor the se LAN, and Etherne		•	
esh button.				
Statistics				
This page shows th	e packet counters for t	ransmission a	nd reception re	garding
	ernet networks.			
Wireless LAN	Sent Packets	145357		
MITCHESS L'AIN	Received Packets	1121		
Ethernet LAN	Sent Packets	6845		
	Received Packets	858102		
Ethernet WAN	Sent Packets	8285		
	Received Packets	0		
	sers to connect to			
s page allows u able DDNS" ch lomain name, u er configuration.	eckbox. Select the sername, and pas	e service pr	ovider from	the drop list
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS is a service	eckbox. Select the sername, and pas	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS is a service	eckbox. Select the sername, and pas Setting that provides you with a va	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS go with that (possibly ev Enable DDNS	eckbox. Select the sername, and pas Setting that provides you with a va	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS is a service go with that (possibly ev Enable DDNS ervice Provider :	eckbox. Select the sername, and pas Setting that provides you with a va erchanging) IP-address.	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS ynamic DNS is a service go with that (possibly ev Enable DDNS ervice Provider : Iomain Name :	eckbox. Select the sername, and pas Setting that provides you with a va erchanging) IP-address.	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS is a service go with that (possibly ev Enable DDNS ervice Provider : Iomain Name : Iser Name/Email:	eckbox. Select the sername, and pas Setting , that provides you with a va erchanging) IP-address.	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi
s page allows u able DDNS" ch lomain name, u er configuration. Dynamic DNS is a service go with that (possibly ev Enable DDNS ervice Provider : Iomain Name : Iser Name/Email:	eckbox. Select the sername, and pas Setting , that provides you with a va erchanging) IP-address. DynDNS	e service pr sword. Clic	ovider from k the "Apply	the drop list. Change" bi

Time Zone Setting

This page allows users to configure the time of the router. To specify manually, fill in the blanks in "Current Time" and click the "Apply Change" button. To synchronize time from a timeserver, please mark the "Enable NTP client update" checkbox, select a NTP server from the drop list or manually enter a NTP server. Click the "Apply Change" button after your configuration.

Current Time :	Yr 2000 Mon I Day 3 Hr 8 Mn 38 Sec 11
fime Zone Select :	(GMT+08:00)Taipei
🛛 Easble NTI	P client update
NTP server :	🕫 192.5.41.41 - North America 💌

Denial of Service

Denial of Service(DoS) allows users to prevent certain packets from accessing this router. This helps to improve the security and against the assault from hackers. To perform Denial of Service:

- 1. Mark the "Enable DoS prevention" checkbox.
- 2. Some packets allow users to specify a packet flow limit. Please fill in an allowed packet amount per second in those blanks first.
- Select those packet types that you are going to block by marking the check boxes. You may also click the "Select All" button to select all packet types or click " Clear All" button to remove all selected packets.
- 4. Click the "Apply Changes" button to execute.

Eastie DoS Prevention	
📓 Whole System Flood: SYN	Packets/Second
III Whole System Flood: FDI	Packets/Second
🖬 Whole System Flood: UDP	Packets/Second
🖬 Whole System Flood: ICMP	Packets/Second
De Soute IP Flood, SYN	Packets/Second
III Pre-Source IP Flood: FDI	Packets/Second
🖬 Per-Source IP Flood: UDP	Packets/Second
Per-Source IP Flood: KMP	Packets/Second
TCPAIDP Perdican	Stantivity
EI ICMP Smart	
🖬 🕑 Land	
🖬 IP Synof	
🖬 IP Teadleop	
E PlagO(Deals)	
TCP Scan	
TCP SyaWithDate	
III UDP Book	
- our massaager	
Select ALL Clear ALL	
III Inshie Source IP Blocking	Hock time (sec)
Apply Change	

System Log

This System Log page shows the information of the current activities on the router.

To enable system log function:

- 1. Mark the "Enable Log" checkbox.
- 2. To see all information of the system, select the "system all" checkbox.
- To see wireless information only, select the "wireless" checkbox.

To sent the log information to a certain note, select the "Enable Remote Log" checkbox and fill in the IP address in the "Log Server IP Address" box.

4. Click the "Apply Changes" button to activate

You could also click the "Refresh" button to refresh the log information or click the "clear" button to clean the log table.

III Haabir Log III ayseen all III Haabir Resson Log	al wistless Leg Server IP Address:	
Apply Clanges	365W3 Post 314	
		2
		*
Refeesk Cleve		

To Upgr	ade Fir	mware,
STEPS	1.	Click "browse" button to select the firmware you want to upgrade.
2.		Click Upload to start the upgrade process. Please don't close the WEB-browser and wait for process to complete. When Upgrade is completed, you can start to use the router.
Upgi	rade F	lirmware
	o not pov	s you upgrade the Access Point firmware to new version. Please ver off the device during the upload because it may crash the
Select	t File:	Browse
Upload	Reset]

To save setting	to file, click "Save" button.
To load setting f	from file,
	e" on the to select the file to start the process and wait for it to complete
To reset setting	to Default, click reset to start the process and it will be the status LED start blinking.
Save/Reload S	ettings
	ave current settings to a file or reload the settings from d previously. Besides, you could reset the current ⁄ default.
Save Settings to File:	Save
Load Settings from File:	Browse Upload
Reset Settings to Default:	Reset
Password	
To set up the Admin	istrator Account information, enter the Username, N
	ter the password on the text box. Don't forget to clic save the configuration.
Apply changes to	
	2
Password Setur	
Password Sctur This page is used to set t	the account to access the web server of Access Point.
This page is used to set t	the account to access the web server of Access Point. assword will disable the protection.
This page is used to set t	
This page is used to set t Empty user name and pa	
This page is used to set t Empty user name and pa User Name:	

Standard	IEEE802.3, 10BASE-T IEEE802.3u, 100BASE-TX IEEE802.3x full duplex operation and flow control		
	IEEE802.11b wireless LAN infrastructure IEEE802.11g wireless LAN infrastructure		
	1 * WAN port		
Interface	4 * 10/100 RJ-45 Fast Ethernet switching ports		
	Antenna: 802.11b/g wireless reverse SMA detachable		
WAN Connection	Ethernet 10/100 Mbps		
Cable Connections	RJ-45 (10BASE-T): Category 3,4,5 UTP RJ-45 (100BASE-TX): Category 5 UTP		
	802.11b: 1, 2, 5.5 and 11Mbps		
Network Data Rate	802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps		
Transmission Mode	Auto-Negotiation (Full-duplex, Half-duplex)		
	System: Power, Status		
LED indications	Port (WAN): ACT/LINK		
	Port (LAN): ACT/LINK		
	Port(Wireless): ACT		
Security	64/128-bit WEP, WPA(TKIP with IEEE 802.1x), WPA2, AES		
	54Mbps OFDM, 10%PER, -71dBm		
Receiver Sensitivity	11Mbps CCK, 10%PER, -81dBm		
	1Mbps BPSK, 10%PER, -92dBm		
Memory	Flash : 2MB NOR type, SDRAM : 16MB		
Transmit Power	802.11b:60.256mW		
	802.11g:104.713mW Indoor 35~100 meters		
Range Coverage	Outdoor 100~300meters.		
Emission	FCC CLASS B, CE, VCCI Class B		
Operating Temperature	0° ~ 40°C (32° ~ 104°F)		
Operating Humidity	10% - 90%		
Power Supply	External Power Adapter, 12VDC/ 1A		

61NB-04410+207C