

Wireless-N Pocket AP/Router

ETR9350

Ultra Portable Pocket AP (Travel Router) V1.0



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Revision History

Version	Date	Notes
1.0	October 21, 2009	Initial Release version







1. Package Contents

- EnGenius TRAVEL ROUTER Ultra Portable Pocket AP
- AC Power Cord
- RJ45 Ethernet LAN Cable
- CD-ROM with User Manual and Setup Utility
- QIG

2. System Requirements

- RJ45 Ethernet Based or 3G USB Internet Connection
- Computer with Wireless Network function
- Windows, MAC OS or Linux based operating systems
- Internet Explorer or Firefox or Safari Web-Browser Software



3. Introduction

TRAVEL ROUTER is the world's smallest 11n Wireless Router and Access Point with 3G connectivity that brings superior convenience for users who need to create a wireless network to share the Internet, documents or multimedia files quickly between computers at speeds of up to 300Mbps.

Also, you can leave the bulky power adapter behind as the power supply unit is embedded in the device, so it can be slipped into your pocket easily.

The TRAVEL ROUTER can be connected to the Internet through a DSL/Cable modem or 3G USB card at any available location. It can even share the connection in your hotel's room if a RJ45 network cable is used.

To ensure your data is secure, the TRAVEL ROUTER supports WiFi Protected Setup (WPS) for simple and easy setup of WPA2 encryption of the wireless signal.



4. Features

• WORLD'S SMALLEST AP

Superior design to bring you the world's smallest 11n AP Router for a true portable wireless solution.

• INTERNAL POWER

No need to bring bulky power adapters for improved space saving convenience.

• 3G MOBILE INTERNET SHARING

Attach a 3G USB adapter to wirelessly share your 3G Internet connection to multiple computers.

• 3 OPERATION MODES

AP Router, Access Point and Client Bridge modes for flexible usage in different scenarios.

• 802.11n COMPLIANT

Fully 802.11n standard compliant to bring you 6x faster and 3x farther wireless connections at speeds up to 300Mbps.

• WPS PUSH BUTTON

WiFi Protected Setup (WPS) Push Button Configuration support for simple and secure setup of your wireless network.

• BEST CHANNEL SELECTION

In places where there are many wireless networks, the TRAVEL ROUTER will select the channel with the least interference for maximum reception and performance.

• MULTI-SSID

Up to 4 different wireless networks can be created with different security encryption methods. They can even be isolated so each wireless network has their own access policies.

• ADVANCED FIREWALL AND ACCESS CONTROL

Dual Firewall is featured to prevent unwanted access from the Internet. URL, MAC and IP Filters allows control over who can connect to your LAN, and what Internet sites they can connect to.



5. Hardware Overview



3G USB

Attach a 3G USB adapter to share your 3G Internet connection.

When 3G USB adapter is connected, RJ45 automatically is set to LAN mode.

RJ45

This RJ45 port can be configured as WAN or LAN modes.

WAN: Connect to the Internet using DSL/Cable modem.

LAN: Connect to a computer, switch or hub.



LED Lights	icon	Description		
Mobile 3G	3G	Color – Blue Lights when 3G USB adapter is connected. Blinks when 3G data transfer.		
Wireless LAN	(m))	Color – Blue Lights when Wireless signal is activated. Blinks when Wireless data transfer.		
WPS	{ }	olor – Blue inks when WPS handshake is initialized.		
LAN		Color – Blue Lights when wired network device is connected to RJ45 port. Blinks when data transfer occurs on RJ45 port.		
Power	Color – Blue Lights when device is powered ON. Blinks device is Reset.			
Mode	(1)	Indicates which mode the TRAVEL ROUTER is set to. Orange – AP Router Blue – Access Point Green – Client Bridge		
Buttons	icon	Description		
WPS	WPS	Press this button to initialize WPS process. Hold this button for 10 seconds to Reset to Factory Defaults.		



6. Before you Begin

This section will guide you through the installation process. Placement of the TRAVEL ROUTER is very important to avoid poor signal reception and performance. Avoid placing the device in enclosed spaces such as a closet, cabinet or wardrobe.

6.1 Considerations for Wireless Installation

The operating distance of all wireless devices cannot be predetermined due to a number of unknown obstacles in the environment that the device is deployed. These could be the number, thickness and



location of walls, ceilings or other objects that the wireless signals must pass through. Here are some key guidelines to ensure that you have the optimal wireless range.

- 1. Keep the number of walls and ceilings between the EnGenius access point and other network devices to a minimum. Each wall or ceiling can reduce the signal strength, the degradation depends on the building's material.
- 2. Building materials makes a difference. A solid metal door or aluminum stubs may have a significant negative effect on range. Locate your wireless devices carefully so the signal can pass through a drywall or open doorways. Materials such as glass, steel, metal, concrete, water (fish tanks), mirrors, file cabinets and brick will also degrade your wireless signal.
- **3.** Interferences can also come from your other electrical devices or appliances that generate RF noise. The most usual types are microwaves, or cordless phones.



6.2 AP Router / AP / Client Bridge Modes

There are three main modes to select from which will influence the installation of the TRAVEL ROUTER. This section will help you determine which mode works with your setup.

AP Router Mode

AP Router Mode allows you to share an Internet connection to multiple computers.

AP Mode

AP mode allows you to have a wired or wireless router.

Client Bridge Mode

Client Bridge Mode allows a wired network device to connect to your wireless network, or create a point-to-point bridge.

Change mode from the top right of the User Interface.



Please see *Configuring the TRAVEL ROUTER* for instructions to access the Web-Based User Interface.



6.3 Check Network Settings (Windows XP/Vista)

1. Click Start button and open Control Panel.



Windows XP

Windows Vista



2. Windows XP, click [Network Connection]



Windows Vista, click [View Network Status and Tasks] then [Manage Network Connections]

Network and Internet Connect to the Internet <u>View network status and tasks</u> Set up file sharing

Tasks

View computers and devices

Connect to a network

Set up a connection or network

Manage network connections

Diagnose and repair

3. Right click on [Local Area Connection] and select [Properties].





- 4. Check "Client for Microsoft Networks", "File and Printer Sharing", and "Internet Protocol (TCP/IP) is ticked. If not, please install them.
- Select "Internet Protocol (TCP/IP)" and click [Properties]

6. Select "Obtain an IP Address automatically" and "Obtain DNS server address automatically" and click [OK].

	link-Laver Topolo	Televisit T T Televi / II	V40				
V 1		or Discovery Man	oper I/O Driver				
Sector 1	🗠 Link-Layer Topology Discovery Responder						
		3,,,					
			-				
Ins	tall	Uninstall	Propertie				
ſ							
	Internet Protocol Version 4	(TCP/IPv4) Properties					
	General Alternate Configu	iration	-				
	this capability. Otherwise,	signed automatically if your netw you need to ask your network a tings	ork supports dministrator				
	for the appropriate in set	ungu,					
	Use the following IP	automatically address:					
	Use the following IP a IP address:	automatically address:	_				
	 Obtain an IP address Use the following IP a IP address: Subnet mask: 	address:					
	 Obtain an IP address Use the following IP address: IP address: Subnet mask: Default gateway: 	automatically address:					
	bbtain an IP address Use the following IP a IP address: Subnet mask: Default gateway: bbtain DNS server ad	address:					
	Obtain an IP address Ouse the following IP a IP address: Subnet mask: Default gateway: Obtain DNS server ac Obtain DNS server ac OUse the following DNS	address:					
	Default gateway: Use the following IN a IP address: Subnet mask: Default gateway: Other of the following DNS Preferred DNS server:	address:					



7. Hardware Installation

AP Router Mode:

One type of Internet connection is required. Please either connect the network cable from your DSL/Cable modem to the RJ45 port on the TRAVEL ROUTER or connect a 3G adapter to the USB port.

Note: When 3G USB adapter is connected, RJ45 automatically is set to LAN mode.





AP Mode:

Connect the network cable to the RJ45 port.



Power On :

Use the AC Power cord to connect TRAVEL ROUTER and outlet or any other power supplies to provide the electricity to the device.





8. Configuring Travel Router

This section will show you how to configure the device using the web-based configuration interface.

Please use your wireless network adapter to connect the TRAVEL ROUTER.

Default Settings

IP Address	192.168.0.1
Username / Password	admin / admin
Wireless Mode	Enable
Wireless SSID	EnGenius <i>xxxxxx</i>
Wireless Security	None

Note: *xxxxxx* mentioned in the wireless SSID above is the last 6 characters of your device MAC Address. This can be found on the device body label and is unique for each device.





1. Open a web browser (Internet Explorer/Firefox/Safari) and enter the IP Address http://192.168.0.1

Note: If you have changed the default IP Address assigned to the TRAVEL ROUTER, ensure you enter the correct IP Address.



2. The default username and password is **admin**. Once you have entered the correct username and password, click the **OK** button to open the web-base configuration page.





3. You will see the following screen if the log on process is successful.

Wireless-N Pocket AP/Router						•			
Status	LAN	DHCP	Schedu		log	Monitor	Language		
You can use the Status page to monitor the connection status for the WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network and information on all DHCP client PCs currently connected to your network.									
343	cem	ſ	Model	3G Wire	eless Tr	avel Route	er		
			Mode	AP Rout	ter				
Uptime			10 min	57 sec				U	
Current Date/Time			2009/0	1/01 00	:14:00				
		Hardware ve	ersion	1.0.0					
		Serial N	umber	09B260	553				
		Kernel ve	ersion	1.0.2					
		Application ve	ersion	1.0.2					
WAN	N Settings								
		Attain IP Pro	otocol	Dynamie	c IP Add	ress			
		IP ad	dress						-
		Subnet	Mask						•

 Click Wizard to enter the Setup Wizard. Then click Next to begin the wizard.







5. Select the Operation Mode.

Please ensure you have the proper cables connected as described in the Hardware Installation section.



Setup Wizard						
Please choose the Operation Mode.						
AP Router Mode:	AP Router is the most common Wireless LAN device with which you will work as a Wireless LAN administrator and Internet Access Point. AP Router provides clients with a point of access into the Internet.					
AP Mode:	AP Mode allows wireless communication devices to connect to a wireless network using Wi-Fi.					
Client Bridge Mode:	The Wireless Client Bridge can operate as a point-to-point bridge to link networks in different buildings.					
		Next				



8.1.1 AP Router Mode

a) The device will now automatically search for the correct Internet settings.

WAN Configuration
Automatically detecting the Services on WAN port. Please wait 7 seconds
Automatically detecting the Services on WAN port. Please wait 7 seconds

WAN Configuration

Please choose your service type or select Others to setup WAN configurations manually.

b) The most appropriate WAN type will be determined and selected automatically.
 If it is incorrect, please select Others to set up the WAN settings manually.

	No.	Service	Description
۲	1.	DHCP	DHCP is used when your Modem is controling your internet connection the Username & Password is stored on the Modem.
0	2.	PPPoE	PPPoE is used when your modem is set in Bridge Mode and your Router is used to control the internet connection. IE: router houses ISP's Username & Password.
\odot	3.	Others	
			Rescan Skip Next



 c) There are many WAN service types available.
 Please obtain the correct settings from your Internet Service Provider (ISP).

Please, enter the data which is supplied by your ISP.					
Login Method:	Select one 💌				
	Select one				
	Static IP Address Dynamic IP Address PPP over Ethernet PPTP				

Static IP Address

If your ISP Provider has assigned you a fixed IP address, enter the assigned IP address, Subnet mask, Default Gateway IP address, and Primary DNS and Secondary DNS (if available) of your ISP provider.





Dynamic IP Address

The IP Address is allocated automatically. However some ISP's will also recognize the MAC address and will reject connections if the MAC address does not match.

If your ISP has recorded the MAC address of your computer's Ethernet LAN card, please connect only the computer with the authorized MAC address, and click the **Clone MAC Address** button.

This will replace the AP Router MAC address to the computer MAC address. The correct MAC address is used to initiate the connection to the ISP.

Login Method:	Dynamic IP Address 🔻
Hostname :	
Mac:	
	Clone MAC Address

Dynamic IP Address	
Hostname:	This is optional. Only required if specified by ISP
MAC:	The MAC Address that is used to connect to the ISP.



PPP over Ethernet

ISP requires an account username and password.

Login Method:	PPP over Ethernet -
Username :	
Password :	
Service :	
MTU :	1492 (512<=MTU Value<=1492)

PPP over Ethernet	
Username:	Username assigned to you by the ISP
Password:	Password for this username.
Service:	You can assign a name for this service. (Optional)
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.



Point-to-Point Tunneling Protocol (PPTP)

PPTP is used by some ISPs.

Login Method:	PPTP -	
WAN Interface Settings :		
WAN Interface Type :	Dynamic IP Address 🔻	
Hostname :		
MAC Address :	00000000000	Clone Mac

PPTP Settings :

Login :		
Password :		
Service IP address :		
Connection ID :	0	(Optional)
мти :	1400	(512<=MTU Value<=1492)



PPTP WAN Interface Settings		
WAN Interface Type:	Select whether the ISP is set to Static IP or Dynamic IP addresses.	
Hostname:	This is optional. Only required if specified by ISP	
MAC:	The MAC Address that is used to connect to the ISP.	
PPTP Settings		
Login:	Username assigned to you by the ISP	
Password:	Password for this username.	
Service IP Address:	The IP Address of the PPTP server.	
Connection ID:	This is optional. Only required if specified by ISP	
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.	



Mobile 3G

Please ensure your 3G USB card is connected to the TRAVEL ROUTER and has an active USIM card inserted.

Login Method:	Mobile 3G 🔹
Pin Code :	
APN Code:	
Dial Number:	
User Name:	
Password:	

Mobile 3G	
Pin Code:	Enter the Pin code for your USIM card if required.
APN Code:	Enter the APN code for the network provider
Dial Number:	Only required if specified by ISP
User Name:	Account Username. Only required if specified by ISP
Password:	Account Password. Only required if specified by ISP



Layer-2 Tunneling Protocol (L2TP)

Login Method:	L2TP 🗸	
WAN Interface Settings :		
WAN Interface Type :	Dynamic IP Address 🔻	
Hostname :		
MAC Address :	00000000000	Clone Mac

L2TP Settings :

Login :		
Password :		
Service IP address :		
MTU :	1460	(512<=MTU Value<=1492)



L2TP WAN Interface Settings		
WAN Interface Type:	Select whether the ISP is set to Static IP or Dynamic IP addresses.	
Hostname:	This is optional. Only required if specified by ISP	
MAC:	The MAC Address that is used to connect to the ISP.	
L2TP Settings		
Login:	Username assigned to you by the ISP	
Password:	Password for this username.	
Service IP Address:	The IP Address of the PPTP server.	
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.	



d) Setup the level of wireless security to be used.

EnGenius recommends the **Highest** level of security to be used.

Note: 802.11n wireless speeds may not be achievable if the security is setup to Lowest and Low level.

WLAN Configuration	
Please choose the security level in the security bar	
Lowest Highest	
Type of wireless security: WPA2 Strength: Highest	
WPA2 security offers the highest strength wireless security but lowest compatibility with older wireless network equipment.	
Enter a security key that is between 8-63 characters long. Make sure the key is not a word or number that is easy to guess.	
SSID : EnGenius5FA6E8	
Key: 1234567890	
	Skip Next

SSID: Enter the name of your wireless network.

Key: Enter the security key for your wireless network.



e) Check the settings are correct, and then click **Reboot** to apply the settings.

Setup Successfully				
System Configuration: Operation Mode :	AP Router			
WAN Configuration: Connection Type :	Dynamic IP Address			
WLAN Configuration :				
SSID :	EnGenius5FA6E8			
Security :	WPA2 pre-shared key			
WLAN Key :	1234567890			
WLAN Router setup successfully. Please click reboot button to reboot system.				
	Reboot			



8.1.2 AP Mode

a) Select the level of wireless security to be used.
 EnGenius recommends the Highest level of security to be used.

Note: 802.11n wireless speeds may not be achievable if the security is setup to Lowest and Low level.

WLAN Configuration				
Please choose the security level in the security bar				
Lowest Highest				
Type of wireless security: WPA2 Strength: Highest				
WPA2 security offers the highest strength wireless security but lowest compatibility with older wireless network equipment.				
Enter a security key that is between 8-63 characters long. Make sure the key is not a word or number that is easy to guess.				
SSID : EnGenius5FA6E8				
Key: 1234567890				
[Skip Next			

- **SSID:** Enter the name of your wireless network.
- **Key:** Enter the security key for your wireless network.



b) Check the settings are correct, and then click **Reboot** to apply the settings.

Setup S	uccessfully		
	System Configuratio	n:	
	Operation Mode :	AP Router	
	WLAN Configuration		
	SSID :	EnGenius5FA6E8	
	Security :	WPA2 pre-shared key	
	WLAN Key :	1234567890	
WLAN R	outer setup successfully	. Please click reboot button to reboot system.	
		Reb	oot



8.1.3 Client Bridge Mode

a) In this mode, the TRAVEL ROUTER will connect to a wireless network as a client device. Please enter the SSID and security settings of that wireless network.

Setup Wizard		
AP Profile Settings		
Network Name (SSID) :	EnGenius	
Encryption :	WPA pre-shared key <	
WPA type :	○ WPA(TKIP)	
Pre-shared Key type :	Passphrase -	
Pre-shared Key :	0987654321	
This page allows you setup t Encryption Keys could prever	he wireless security. Turn on WEP or WPA by using nt any unauthorized access to your wireless network.	Next

b) Check the settings are correct, and then click **Reboot** to apply the settings.

System Configuration: Operation Mode :

Client Bridge


8.2 Web-Based Configuration

8.2.1 System

Status

This page allows you to monitor the status of the device.

System

Model	3G Wireless Router
Mode	AP Router
Uptime	33 min 35 sec
Current Date/Time	2009/01/01 00:53:01
Hardware version	1.0.0
Serial Number	000000111
Kernel version	1.0.2
Application version	1.0.2



Status	
Model:	Description of this device.
Mode:	The device is currently in which mode.
Uptime:	The duration about the device has been operating without powering down or reboot.
Current Date/Time:	The device's system time. If this is incorrect, please set the time in the Tools / Time page.
Hardware version and Serial Number:	Hardware information for this device.
Kernel and Application version:	Firmware information for this device.



WAN Settings		
	Attain IP Protocol	Dynamic IP Address
	IP address	10.0.174.29
	Subnet Mask	255.255.254.0
	Default Gateway	10.0.175.254
	MAC address	00:02:6F:5F:A9:1E
	Primary DNS	10.0.200.101
	Secondary DNS	10.0.200.102

WAN Settings	
Attain IP Protocol:	Method used to connect to the Internet
IP address:	The WAN IP Address of the device.
Subnet Mask	The WAN Subnet Mask of the device.
MAC address	The MAC address of the device's WAN Interface.
Primary and Secondary DNS:	Primary and Secondary DNS servers assigned to the WAN connection.



LAN Settings

IP address 192.168.0.1 Subnet Mask 255.255.255.0 DHCP Server Enabled

LAN Settings	
IP address:	The LAN IP Address of the device.
Subnet Mask	The LAN Subnet Mask of the device.
DHCP Server	Whether the DHCP server is Enabled or Disabled.

WLAN Settings Channel 11 **WLAN Settings** SSID_1 ESSID EnGenius5FA6E8 The wireless channel in use. Channel: Disable Security The SSID (Network Name) of the wireless network. ESSID: BSSID 00:02:6F:5F:A6:E8 (up to 4 SSID's are supported) Associated Clients 1 Security: Wireless encryption is enabled for this SSID. SSID_2 BSSID: The MAC address of this SSID. ESSID EnGenius5FA6E8_2 Security Disable **Associated Clients:** The number of wireless clients connected to this SSID. 00:02:6F:5F:A6:E9 BSSID Associated Clients 0



LAN

This page allows you to modify the device's LAN settings.

	Wireles	ss-N Pocket AP/Router AP	Router Mode 🔹
<u>Status</u>	LAN DHCP Scher	<u>dule Log Monitor Language</u>	-
You c	an anable the Broadband router	s DHCD server to dynamically allocate ID Addresse	
LAN di	ient PCs. The broadband router	must have an IP Address for the Local Area Netwo	ork.
LAN I	Р		
	IP address :	192.168.0.1	
	IP Subnet Mask :	255.255.255.0	
	802.1d Spanning Tree :	Disabled -	-
DHCP	Server		
	DHCP Server :	Enabled -	
	Lease time :	Forever -	
	Start IP :	192.168.0.100	
	End IP :	192.168.0.200	
	Domain name :	etr9350	
DNS	Sorvorc		_
DNS			
	DNS Servers Assigned by I	DHCP Server	





LAN IP	
IP address:	The LAN IP Address of this device.
IP Subnet Mask:	The LAN Subnet Mask of this device.
802.1d Spanning Tree:	When Enabled, the Spanning Tree protocol will prevent network loops in your LAN network.



DHCP Server

DHCP Server :	Enabled -
Lease time :	Forever -
Start IP :	192.168.0.100
End IP :	192.168.0.200
Domain name :	etr9350

DHCP Server	
DHCP Server:	The DHCP Server automatically allocates IP addresses to your LAN devices.
Lease Time:	The duration of the DHCP server allocates each IP address to a LAN device.
Start / End IP:	The range of IP addresses of the DHCP server will allocate to LAN devices.
Domain name:	The domain name for this LAN network.



DNS Servers

DNS Servers Assigned by DHCP Server

First DNS Server

Second DNS Server

DNS Relay 🛛 👻	192.168.0.1
From ISP	0.0.0.0
User-Defined	
DNS Relay	
None	

Two DNS servers can be assigned for use by your LAN devices.

There are three modes available.

DNS Servers	
From ISP:	The DNS server IP address is assigned from your ISP.
User-Defined:	The DNS server IP address is assigned manually.
DNS Relay:	LAN clients are assigned the device's IP address as the DNS server. DNS requests are relayed to the ISP's DNS server.



DHCP

This page shows the status of the DHCP server and also allows you to control how the IP addresses are allocated.

	w	ireless-N	Pocket	AP/Ro	outer	AP Rout	ter Mode 🗖
<u>Status</u>	<u>N DHCP</u>	<u>Schedule</u>	Log	<u>Monitor</u>	<u>Language</u>		
DHCP Client	Table	1					
This DHCP CI	ient Table show:	s client IP addre	ess assigned	by the DH	CP Server		
IP ac	ldress	MAC a	ddress		Expiration Tim	1e	
192.16	8.0.100	00:1A:4D	:49:1E:3A		Forever		
192.16	8.0.101	00:0C:F6	:5C:06:14		Forever		
Refresh							
You can assi	gn an IP address	s to the specific	MAC addres	5			
🗹 Enable S	tatic DHCP IP						
	IP address			MAC addr	ess		
Add	set						
Current Stat	ic DUCD Table :						
NO.	IC DHCP Table : IP ad	dress		мас	address	5	elect



The DHCP Client Table shows the LAN clients that have been allocated an IP address from the DHCP Server

DHCP Client Table

This DHCP Client Table shows client IP address assigned by the DHCP Server

IP address	MAC address	Expiration Time
192.168.0.100	00:1A:4D:49:1E:3A	Forever
192.168.0.101	00:0C:F6:5C:06:14	Forever

Refresh

DHCP Client Table	
IP address:	The LAN IP address of the client.
MAC address:	The MAC address of the client's LAN interface.
Expiration Time:	The time that the allocated IP address will expire.
Refresh:	Click this button to update the DHCP Client Table.



Enable Static DHCP IP

Delete Selected

	IP address	MAC address	
192	.168.0.155	000AF43C1516	
Add	Reset		
NO.	IP address	MAC address	Select
1	192.168.0.150	00:0C:C6:3C:06:17	

Reset

Delete All

You can also manually specify the IP address that will be allocated to a LAN client by associating the IP address with its MAC address.

Type the IP address you would like to manually assign to a specific MAC address and click **Add** to add the condition to the Static DHCP Table.



Schedule

This page allows you to schedule times that the Firewall and Power Saving features will be activated / deactivated.

Click **Add** to create a Schedule entry.

Wireless-N Pocket AP/Router					AP Router Mode	•	
<u>Status</u>	DHCP	<u>Schedule</u>	<u>Loq</u>	Monitor	Language		

You can use the Schedule page to Start/Stop the Services regularly. The Schedule will start to run, when it get GMT Time from Time Server. Please set up the Time Server correctly in Toolbox. The services will start at the time in the following Schedule Table or it will stop.

Enabled Schedule Table (up to 8)

NO.	Description	Service	Schedule	Select
1	schedule 01	Firewall	From 08:00 to 20:00Mon, Wed, Fri	
2	schedule 02	Power Saving	From 21:00 to 23:30Mon, Tue, Wed, Thu, Fri, Sat, Sun	
Add	Edit Delete Selec	ted Delete All]	
			Ap	oply C



Schedule Description :	schedule 01
Service :	🗹 Firewall 🔲 Power Saving
Days :	🔲 Every Day 🗹 Mon 🔲 Tue 🗹 Wed 🔲 Thu 🗹 Fri 🔲 Sat 🔲 Sun
Time of day :	All Day (use 24-hour clock) From 8 : 0 To 20 : 0
	Apply Cancel

Schedule	
Schedule Description:	Assign a name to the schedule.
Service:	The service provides for the schedule.
Days:	Define the Days to activate or deactivate the schedule.
Time of day:	Define the Time of day to activate or deactivated the schedule. Please use 24-hour clock format.



Log

This page displays the system log of the device. When powered down or rebooted, the log will be cleared.

		Wire	eless-N	Pocke	et AP/Ro	outer	AP Router Mode
<u>Status</u>	LAN	DHCP	Schedule	Loq	Monitor	<u>Language</u>	
View the	e system ope	ration inforr	nation.				
day 1	02:01:25	[SYSTEM]:	WLAN, st	art LLTD			*
day 1	02:01:25	[SYSTEM]:	WLAN, LL	ID Stoppi	ng		(≡)
day 1	02:01:25	[SYSTEM]:	UPnP, St	opping			
day 1	02:01:24	[SYSTEM]:	NET, sta:	rt Firewa	11		
day 1	02:01:24	[SYSTEM]:	NET, sta	rt NAT	-		
day 1	02:01:24	[SYSTEM]:	NET, stop	p Firewal	1		
day 1	02:01:24	[SISIEM]:	NEI, STO	p NAI stop Do	war Sawa		
day 1	02:01:24	(SYSTEM) ·	SCHEDULE	, scop ro Schedul	e Stoppin	*	-
		[0101111].	DOILDOLL	, boncuui	c boopping	,	Þ
Save	Clear	Refresh					
.og							
Save:		Save the	log to a file	2.			
Clear:		Clears th	ne log.				_
Refresh:		Updates	the log.				



Monitor

This page shows a histogram of the WAN and Wireless LAN traffic. The information is automatically updated every five seconds.



You can monitor the bandwidth in different interface. This page will refresh in every five seconds.





Language

This page allows you to change the Language of the User Interface.

Wireless-N Pocket AP/Router						AP Router Mode	•	
<u>Status</u>	LAN	DHCP	<u>Schedule</u>	<u>Loq</u>	Monitor	<u>Language</u>		

You can select other language in this page.

Multiple Language :	Choose your language 🔹 👻
	Choose your language
	English
	Traditional Chinese
	Simplified Chinese



8.2.2 Internet

The Internet section allows you to manually set the WAN type connection and its related settings.

Status

This page shows the current status of the device's WAN connection.



Renew

View the current internet connection status and related information.

WAN Settings		
	Attain IP Protocol	Dynamic IP Address
	IP address	10.0.174.29
	Subnet Mask	255.255.254.0
	Default Gateway	10.0.175.254
	MAC address	00:02:6F:5F:A9:1E
	Primary DNS	10.0.200.101
	Secondary DNS	10.0.200.102



Dynamic IP Address

The IP Address is allocated automatically. However some ISP's will also recognize the MAC address and will reject connections if the MAC address does not match.

If your ISP has recorded the MAC address of your computer's Ethernet LAN card, please connect only the computer with the authorized MAC address, and click the **Clone MAC Address** button.

This will replace the AP Router MAC address to the computer MAC address. The correct MAC address is used to initiate the connection to the ISP.



Hostname :			
MAC address :	00000000000	Clone MAC	
DNS Servers			
DNS Servers Type	From ISP 👻		
First DNS Server	10.0.200.101]	
Second DNS Server	10.0.200.102]	
			Apply Cance



Dynamic IP Address				
Hostname:	Hostname: This is optional. Only required if specified by ISP			
MAC address:	The MAC Address that is used to connect to the ISP.			
DNS Servers				
Two DNS servers can be assigned for use by your LAN devices. There are two modes available.				
From ISP:	LAN devices are assigned the DNS server IP address of your ISP.			
User-Defined: Set the DNS server IP address manually.				

Static IP Address

If your ISP Provider has assigned you a fixed IP address, enter the assigned IP address, Subnet mask, Default Gateway IP address, and Primary DNS and Secondary DNS (if available) of your ISP provider.



		Wi	reless-l	N Pocke	et AP/Ro	uter	AP Router Mode	•
<u>Status</u>	<u>Dynamic IP</u>	<u>Static IP</u>	<u>PPPoE</u>	<u>РРТР</u>	L2TP	<u>3G</u>		

IP address:	
IP Subnet Mask :	
Default Gateway :	
Primary DNS :	
Secondary DNS :	

Apply	Cancel
-------	--------





ISP requires an account username and password.

		Wir	reless-N	l Pocke	t AP/Roi	uter	AP Router Mode	•
<u>Status</u>	<u>Dynamic IP</u>	<u>Static IP</u>	<u>PPPoE</u>	<u>РРТР</u>	L2TP	<u>3G</u>		

Cancel

Login :	username		
Password :	•••••		
Service Name	ISP		
мти :	1492	(512<=MTU Value <=1492)	
Authentication type :	Auto 🔻		
Туре :	Keep Connection	n 🔸	
Idle Timeout :	10	(1-1000 Minutes)	
			Apply



PPP over Ethernet (PPPoE)	
Username:	Username assigned to you by the ISP
Password:	Password for this username.
Service:	You can assign a name for this service. (Optional)
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.
Authentication type	Select whether the ISP uses PAP or CHAP methods for authentication. Select Auto if unsure.
Туре:	You can choose the method that the router maintains connection with the ISP.
	Keep Connection: The device will maintain a constant connection with the ISP.
	Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device.
	Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.
Idle Timeout:	When the connection type is Automatic Connection , when Internet traffic is idle, then the device will automatically disconnect from the ISP.
	Please specify the Idle time in minutes.

Point-to-Point Tunneling Protocol (PPTP) PPTP is used by some ISPs.





Point-to-Point Tunneling Protocol (PPTP)				
WAN Interface Type:	Select whether the ISP is set to Static IP or will allocate Dynamic IP addresses.			



Hostname:	This is optional. Only required if specified by ISP
MAC address:	The MAC Address that is used to connect to the ISP.
Login:	Username assigned to you by the ISP
Password:	Password for this username.
Service IP Address:	The IP Address of the PPTP server.
Connection ID:	This is optional. Only required if specified by ISP
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.
Туре:	You can choose the method that the router maintains connection with the ISP. Keep Connection: The device will maintain a constant connection with the ISP. Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device. Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.
Idle Timeout:	When the connection type is Automatic Connection , when Internet traffic is idle, then the device will automatically disconnect from the ISP. Please specify the Idle time in minutes.



Layer-2 Tunneling Protocol (L2TP)

L2TP is used by some ISPs.

		Wir	eless-N	l Pocke	t AP/Ro	uter	AP Router Mode	•
<u>Status</u>	Dynamic IP	Static IP	<u>PPPoE</u>	<u>РРТР</u>	L2TP	<u>3G</u>		

WAN Interface Settings :		
WAN Interface Type :	Dynamic IP Address 🔻	
Hostname :		
MAC address :	00000000000 Clone MAC	
L2TP Settings :		
Login :		
Password :		
Service IP address :		
мти :	1460 (512<=MTU Value <=1492)	
Туре :	Keep Connection -	
Idle Timeout :	10 (1-1000 Minutes)	
	Apply Can	el



Layer-2 Tunneling Protocol (L2TP)				
WAN Interface Type:	Select whether the ISP is set to Static IP or will allocate Dynamic IP addresses.			
Hostname:	This is optional. Only required if specified by ISP			
MAC:	The MAC Address that is used to connect to the ISP.			
Login:	Username assigned to you by the ISP			
Password:	Password for this username.			
Service IP Address:	The IP Address of the PPTP server.			
MTU:	The maximum size of packets. Do not change unless mentioned by the ISP.			
Туре:	You can choose the method that the router maintains connection with the ISP.			
	Keep Connection: The device will maintain a constant connection with the ISP.			
	Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device.			
	Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.			
Idle Timeout:	When the connection type is Automatic Connection , when Internet traffic is idle, then the device will automatically disconnect from the ISP.			
	Please specify the Idle time in minutes.			



Please ensure your 3G USB card is connected to the TRAVEL ROUTER and has an active USIM card inserted.

	Wireless-N Pocket AP/Router						•
<u>Status</u>	Dynamic IP Static IP	<u>PPPoE</u>	<u>РРТР</u>	L2TP	<u>3G</u>		

Pin Code :	
APN Code :	
Dial Number :	
Username :	
Password :	
Туре :	Keep Connection -
Idle Timeout :	10 (1-1000 Minutes)

Apply	Cancel



Mobile 3G				
Pin Code:	Enter the Pin code for your USIM card if required.			
APN Code:	Enter the APN code for the network provider			
Dial Number:	Only required if specified by ISP			
User Name:	Account Username. Only required if specified by ISP			
Password:	Account Password. Only required if specified by ISP			
Туре:	You can choose the method that the router maintains connection with the ISP. Keep Connection: The device will maintain a constant connection with the ISP. Automatic Connection: The device will only initiate connection to the ISP when there is an Internet connection request made from a LAN device. Manual Connection: The user will need to manually connect to the ISP by clicking the Connect button.			
Idle Timeout:	When the connection type is Automatic Connection , when Internet traffic is idle, then the device will automatically disconnect from the ISP. Please specify the Idle time in minutes.			



8.2.3 Wireless

The Wireless section allows you to configure the Wireless settings.

Status

This page shows the current status of the device's Wireless settings.



This page allows you to define SSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Radio :	🖲 Enable 🔘 Disable
Mode :	AP -
Band :	2.4 GHz (B+G+N) -
Enable SSID#:	2 🔻
SSID1 :	EnGenius5FA6E8
SSID2 :	EnGenius5FA6E8_2
Auto Channel :	🔘 Enable 🛛 💿 Disable
Channel :	11 -





Basic	
Radio:	Enable or Disable the device's wireless signal.
Mode:	Select between Access Point or Wireless Distribution System (WDS) modes.
Band:	Select the types of wireless clients that the device will accept.
	eg: 2.4 Ghz (B+G) Only 802.11b and 11g clients will be allowed.
Enable SSID#:	Select the number of SSID's (Wireless Network names) you would like.
	You can create up to 4 separate wireless networks.
SSID#	Enter the name of your wireless network. You can use up to 32 characters.
Auto Channel:	When enabled, the device will scan the wireless signals around your area and select the channel with the least interference.
Channel:	Manually select which channel the wireless signal will use.
Check Channel Time:	When Auto Channel is Enabled, you can specify the period of the device will scan the wireless signals around your area.



Wireless Distribution System (WDS)

Using WDS to connect Access Point wirelessly, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement.

Note that compatibility between different brands and models is not guaranteed. It is recommended that the WDS network be created using the same models for maximum compatibility.

Also note that all Access Points in the WDS network needs to use the same Channel and Security settings.

To create a WDS network, please enter the MAC addresses of the Access Points that you want included in the WDS. There can be a maximum of four access points.

Radio :	🖲 Enable 🔘 Disable		
Mode :	WDS -		
Band :	2.4 GHz (B+G+N) -		
Enable SSID#:	2 🗸		
SSID1 :	EnGenius5FA6E8		
SSID2 :	EnGenius5FA6E8_2		
Channel :	11 💌		
MAC address 1 :	00000000000		
MAC address 2 :	00000000000		
MAC address 3 :	00000000000		
MAC address 4 :	00000000000		
WDS Data Rate :	300M -		
Set Security :	Set Security		



Advanced

This page allows you to configure wireless advance settings. It is recommended the default settings are used unless the user has experience with these functions.



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 Broadband router.

Fragment Threshold :	2346	(256-2346)	
RTS Threshold :	2347	(1-2347)	
Beacon Interval :	100	(20-1024 ms)	
DTIM Period :	1	(1-255)	
N Data rate :	Auto -		
Channel Bandwidth :	Auto 20/40	MHZ 🔘 20 MHZ	
Preamble Type :	Cong Pream	nble 💿 Short Preamble	
CTS Protection :	🖲 Auto 🛛 🔘 A	lways 🔘 None	
Tx Power :	100 % 👻		

Apply Cancel



Advanced	
Fragment Threshold:	Specifies the size of the packet per fragment. This function can reduce the chance of packet collision. However when this value is set too low, there will be increased overheads
	resulting in poor performance.
RTS Threshold:	When the packet size is smaller than the RTS Threshold, then the packet will be sent without RTS/CTS handshake which may result in incorrect transmission.
Beacon Interval:	The time interval that the device broadcasts a beacon. This beacon is used to synchronize all wireless clients on the network.
DTIM Period:	A Delivery Traffic Indication Message informs all wireless clients that the access point will be sending Multi-casted data.
N Data Rate:	You can limit the transfer rates between the device and wireless clients. Each Modulation Coding Scheme (MCS) refers to a specific transfer speed.
Channel Bandwidth:	Set whether each channel uses 20 or 40Mhz. To achieve 11n speeds, 40Mhz channels must be used.
Preamble Type:	A preamble is a message that helps access points synchronize with the client.
	Long Preamble is standard based so increases compatibility. Short Preamble is non-standard, so it decreases compatibility but increases performance.
CTS Protection:	When Enabled, the performance is slightly lower however the chances of packet collision is greatly reduced.
Tx Power:	Set the power output of the wireless signal.



Security

This page allows you to set the wireless security settings.

	Wireless-N Pocket AP/Router						AP Router Mode	•
<u>Basic</u>	Advanced	<u>Security</u>	<u>Filter</u>	<u>WPS</u>	<u>Client List</u>	Policy		

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

SSID Selection :	EnGenius5FA6E8 -
Broadcast SSID :	Enable -
WMM :	Enable -
Encryption :	Disable 🔹

Enable 802.1x Authentication

Apply	Cancel
-------	--------



Security		
SSID Selection:	Select the SSID that the security settings will apply to.	
Broadcast SSID:	If Disabled, then the device will not be broadcasting the SSID. Therefore it will be invisible to wireless clients.	
WMM:	WiFi Multi-Media is a Quality of Service protocol which prioritizes traffic in the order according to voice, video, best effort, background. Note that in certain situations, WMM needs to be enabled to achieve 11n transfer speeds.	
Encryption:	 The encryption method to be applied. You can choose from WEP, WPA pre-shared key or WPA RADIUS. Disabled - no data encryption is used. WEP - data is encrypted using the WEP standard. WPA-PSK - data is encrypted using the WPA-PSK standard. This is a later standard than WEP, and provides much better security than WEP. If all your Wireless stations support WPA-PSK, you should use WPA-PSK rather than WEP. WPA2-PSK - This is a further development of WPA-PSK, and offers even greater security, using the AES (Advanced Encryption Standard) method of encryption. WPA-RADIUS - This version of WPA requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WPA standard. If this option is selected: This Access Point must have a "client login" on the Radius Server. Each user must have a "user login" on the Radius Server. Each user's wireless client must support 802.1x and provide the login data when required. All data transmission is encrypted using the WPA standard. Keys are automatically generated, so no key input is required. 	



IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates users by IEEE 802.1x, but it does not encrypt the data during communication.

Enable 802.1x Authentication

RADIUS Server IP address :	
RADIUS Server port :	1812
RADIUS Server password :	

802.1x Authentication		
RADIUS Server IP Address:	The IP Address of the RADIUS Server	
RADIUS Server port:	The port of the RADIUS Server.	
RADIUS Server password:	The RADIUS Server's password.	


WEP Encryption:

WEP Encryption	
Authentication Type:	Please ensure that your wireless clients use the same authentication type.
Key Length:	 Select the desired option, and ensure the wireless clients use the same setting. 64 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 64 Bit Encryption, the key size is 10 chars in HEX (0~9 and A~F). 128 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 128 Bit Encryption, the key size is 26 chars in HEX (0~9 and A~F).
Default Key:	Select the key you wish to be the default. Transmitted data is ALWAYS encrypted using the Default Key; the other Keys are for decryption only. You must enter a Key Value for the Default Key .
Encryption Key #:	Enter the key value or values you wish to use. Only the Key selected as Default is required. The others are optional.

Encryption :	WEP -
Authentication type :	◉ Open System 🔿 Shared Key 🔿 Auto
Key Length :	128-bit 👻
Key type :	ASCII (13 characters) 👻
Default key :	Key 1 👻
Encryption Key 1 :	1234567890123
Encryption Key 2 :	*****
Encryption Key 3 :	*****
Encryption Key 4 :	****



WPA Pre-Shared Key Encryption:

Encryption :	WPA pre-shared key 👻		
WPA type :	WPA(TKIP) OWP	A2(AES) OWPA2 Mixed	
Pre-shared Key type :	Passphrase -		
Pre-shared Key :	1234567890		

WPA Pre-Shared Key Encryption		
Authentication Type:	Please ensure that your wireless clients use the same authentication type.	
WPA type:	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.	
Pre-shared Key Type:	Select whether you would like to enter the Key in HEX or Passphrase format.	
Pre-shared Key:	Wireless clients must use the same key to associate the device. If using passphrase format, the Key must be from 8 to 63 characters in length.	



WPA RADIUS Encryption:

Encryption :	WPA RADIUS	-	
WPA type :	WPA(TKIP)	O WPA2(AES)	© WPA2 Mixed
RADIUS Server IP address :			
RADIUS Server port :	1812		
RADIUS Server password :			

WPA RADIUS Encryption		
WPA type:	Select the WPA encryption you would like. Please ensure that your wireless clients use the same settings.	
RADIUS Server IP address:	Enter the IP address of the RADIUS Server	
RADIUS Server Port:	Enter the port number used for connections to the RADIUS server.	
RADIUS Server password:	Enter the password required to connect to the RADIUS server.	



Filter

This page allows you to create filters to control which wireless clients can connect to this device by only allowing the MAC addresses entered into the Filtering Table.



For security reason, the Access Point features MAC Address Filtering which only allows authorized MAC Addresses to associate with the Access Point

Enable Wireless Access Control

Description	MAC address
Notebook2	00ABC710722
Add Reset	

MAC Address Filtering Table :

NO.	Description	MAC address	Select
1	Notebook1	00:0C:C6:3C:06:17	
Delet	te Selected Delete All Rese	et	



Wireless Filter		
Enable Wireless Access	Tick the box to Enable Wireless Access Control.	
Control:	When Enabled, only wireless clients on the Filtering Table will be allowed	
	When Enabled, only wheless chefts of the Filtering Table will be allowed.	
Description:	Enter a name or description for this entry.	
MAC address:	Enter the MAC address of the wireless client that you wish to allow	
	connection.	
Add:	Click this button to add the entry.	
Reset:	Click this button if you have made a mistake and want to reset the MAC	
	address and Description fields.	
MAC Address Filtering Table		
Only clients listed in this table will be allowed access to the wireless network.		

Delete Selected:Delete the selected entries.	
Delete All:	Delete all entries
Reset:	Un-tick all selected entries.



Wi-Fi Protected Setup (WPS)

WPS feature is following the Wi-Fi Alliance WPS standard and it eases the set up of security-enabled Wi-Fi networks in the home and small office environment.

It reduces the user steps required to configure a network and supports two methods that are familiar to most consumers to configure a network and enable security.

۷	Vireless-N Pocket AP/Router	AP Router Mode 🗸
Basic Advanced Securit	y <u>Filter WPS</u> <u>Client List</u> <u>Policy</u>	
WPS:	Enable	
WPS Button :	🗹 Enable	
Wi-Fi Protected Setup I	nformation	
WPS Current Status :	Configured Release Configuration	
Self Pin Code :	62686488	
SSID :	123	
Authentication Mode :	WPA2 pre-shared key	
Passphrase Key :	s9vd-842c-ez0t	
WPS Via Push Button :	Start to Process	
WPS via PIN :	Start to Process	



Wi-Fi Protected Setup (WPS)		
WPS:	Tick to Enable the WPS feature.	
WPS Button:	Tick to Enable the WPS push button.	
Wi-Fi Protected Setup In	formation	
WPS Current Status:	Shows whether the WPS function is Configured or Unconfigured .	
	Configured means that WPS has been used to authorize connection between the device and wireless clients.	
SSID:	The SSID (wireless network name) used when connecting using WPS.	
Authentication Mode:	Shows the encryption method used by the WPS process.	
Passphrase Key:	This is the passphrase key that is randomly generated during the WPS process. It is required if wireless clients that do not support WPS attempts to connect to the wireless network.	
WPS Via Push Button:	Click this button to initialize WPS feature using the push button method.	
Initializing WPS Feature	·	



There are two methods to initialize the WPS feature. They are the Push Button and Pin code methods.

1. WPS Push Button Method

Push the WPS button on the TRAVEL ROUTER device. The WPS LED light will start to flash to indicate that the WPS process is ready.



While the WPS LED is flashing on the TRAVEL ROUTER, press the WPS button on your wireless client. This could either be a physical hardware button, or a software button in the utility.





2. Pin Code Method

Note the Pin code of your TRAVEL ROUTER device.

🗹 Enable
🗹 Enable
nformation
unConfigured
62686488
EnGenius5FA6E8
Disable
Start to Process
Start to Process

Please use this Pin code to initialize the WPS process from the wireless client configuration utility.

This process will be different for each brand or model. Please consult the user manual of the wireless client for more information.



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Client List

This page shows the wireless clients that are connected to the TRAVEL ROUTER device.

Wireless-N Pocket AP/Router							AP Router Mode	•
Basic	Advanced	<u>Security</u>	<u>Filter</u>	WPS	<u>Client List</u>	<u>Policy</u>		

WLAN Client Table :

This WLAN Client Table shows client MAC address associate to this Broadband Router

Interface	MAC Address	Signal (%)	Idle Time
EnGenius5FA6E8_2	00:19:7D:9E:D4:9C	68	20 secs

Refresh



This page allows you to configure the access policies for each SSID (wireless network).

Wireless-N Pocket AP/Rout	er	AP Router Mode
asic Advanced Security Filter WPS Client List	<u>Policy</u>	
SSID 1 Connection Control Policy		
WAN Connection	Enable	•
Communication between Wireless clients	Enable	•
Communication between Wireless clients and Wired clients	Enable	•
SSID 2 Connection Control Policy	Fachle	
WAN Connection	Enable	•
Communication between Wireless clients	Enable	•
Communication between Wireless clients and Wired clients	Enable	•

Apply Cancel

Policy	
WAN Connection:	Allow wireless clients on this SSID to access the WAN port which typically is an Internet connection.
Communication between Wireless clients:	Whether each wireless client can communicate with each other in this SSID. When Disabled, the wireless clients will be isolated from each other.
Communication between Wireless clients and Wired clients.	Whether wireless clients on this SSID can communicate with computers attached to the wired LAN port.



8.2.4 Firewall

The Internet section allows you to set the access control and Firewall settings.

Enable

This page allows you to Enable / Disable the Firewall features.

When Enabled, Denial of Service (DoS) and SPI (Stateful Packet Inspection) features are also be enabled.



Firewall automatically detects and blocks Denial of Service (DoS) attacks. URL blocking, packet filtering and SPI (Stateful Packet Inspection) are also supported. The hackers attack will be recorded associated with timestamp in the security logging area.

Firewall :
 Enable
 Disable

Apply



Advanced

You can choose whether to allow VPN (Virtual Private Network) packets to pass through the Firewall.

	Wireless-N Pocket AP/Router								•
<u>Enable</u>	<u>Advanced</u>	<u>DMZ</u>	DoS	MAC	Filter	<u>IP Filter</u>	<u>URL Filter</u>		
		Descriptio	n			Select			
	VPN PF	PTP Pass-T	hrough						
	VPN IP:	Sec Pass-1	Through						
								Apply Cancel	



DMZ

This feature, if enabled, allows the DMZ computer on your LAN to be exposed to all users on the Internet.

- This allows almost any application to be used on the "DMZ PC"
- The "DMZ PC" will receive all Unknown connections and data.
- If the DMZ feature is enabled, please enter the IP address of the PC to be used as the "DMZ PC"

Note: The "DMZ PC" is effectively outside the Firewall, making it more vulnerable to attacks. For this reason, you should only enable the DMZ feature when required.

	Wireless-	N Pocket AP/R	outer	AP Router Mode	•
Enable Advanced	DMZ DoS	MAC Filter IP Filter	URL Filter		
If you have a local clien firewall, you can open DMZ Host.	nt PC that cannot ru unrestricted two-wa	in an Internet applicatior ay Internet access for thi	n properly fron is client by def	n behind the NAT ining a Virtual	
Local IP Address :	192.168.0.100	≤ 192.168.0.100	•		
				Apply Cancel	



Denial of Service (DoS)

Denial of Service (Denial of Service) is a type of Internet attack that sends a high amount of data to you with the intent to overload your Internet connection.

Enable the DoS firewall feature to automatically detect and block these DoS attacks.



The Firewall can detect and block DOS attacks, DOS (Denial of Service) attacks can flood your Internet Connection with invalid packets and connection requests, using so much bandwidth and so many resourcess that Internet access becomes unavailable.

Block DoS:

Enable
Disable

Apply Cancel



MAC Filter

You can choose whether to Deny or only Allow those computers listed in the MAC Filtering table to access the Internet.

Enable Advanced DMZ Dos	<u>MA</u>	<u>C Filter</u>	<u>IP Filter</u> <u>L</u>	IRL Filter	
MAC Filters are used to deny or allow L	LAN comp	uters fro	m accessing t	he Intern	et.
Enable MAC filtering					
 Deny all clients with MAC address li Allow all clients with MAC address li 	isted belo listed belo	ow to acc ow to acc	cess the netwo	ork ork	
Description		LA	N MAC Addre	ess	
Notebook2		01	0CF63C0617		
Add Reset					
MAC Filtering table :					
NO. Description 1 Notebook1		00:0C:	AC Address C6:3C:06:17	Select	
Delete Selected Delete All	Reset				Apply

MAC Filter	
Enable MAC filtering:	Tick this box to Enable the MAC filtering feature.
Deny all clients with MAC addresses listed below to access the network:	When selected, the computers listed in the MAC Filtering table will be Denied access to the Internet.
Allow all clients with MAC addresses listed below to access the network:	When selected, only the computers listed in the MAC Filtering table will be Allowed access to the Internet.

Cancel



IP Filter

You can choose whether to Deny or only Allow, computer with those IP Addresses from accessing certain Ports.

This can be used to control which Internet applications the computers can access.

You may need to have certain knowledge of what Internet ports the applications use.

	Wireless-N Pocket AP/Router AP Router Mode	• •
Enable Advanced I	DMZ Dos MAC Filter IP Filter URL Filter	^
ID Filters are used to d	lenv or allow I AN computers from accessing the Internet	
Enable IP Filterir	na Table	
Deny all clients with	IP address listed below to access the network	
Allow all clients with	IP address listed below to access the network	
Description :		E
Protocol : Local TP Address :	Both V	
Port range :		
Add Reset		
NO. Description	Local IP Address Protocol Port range Select	
1 Jack and John	192.168.0.101 BOTH 21-22	
Delete Selected	Delete All Reset	

IP Filter	
Enable IP filtering:	Tick this box to Enable the IP filtering feature.
Deny all clients with IP addresses listed below to access the network:	When selected, the computers with IP addresses specified will be Denied access to the indicated Internet ports.
Allow all clients with IP addresses listed below to access the network:	When selected, the computers with IP addresses specified will be Allowed access only to the indicated Internet ports.



URL Filter

You can deny access to certain websites by blocking keywords in the URL web address.

For example, "abc123" has been added to the URL Blocking Table. Any web address that includes "abc123" will be blocked.

Wireless-N Pocket AP/Router							AP Router Mode	•
<u>Enable</u>	Advanced	DMZ	<u>DoS</u>	MAC Filter	<u>IP Filter</u>	URL Filter		

You can block access to certain Web sites for a particular PC by entering either a full URL address or just a keyword of the Web site

Enable URL Blocking

URL/keyword		
Add Reset		

Current URL Blocking Table :







8.2.5 Advanced

The Internet section allows you to configure the **Advanced** settings of the router.

Network Address Translation (NAT)

This page allows you to Enable / Disable the Network Address Translation (NAT) feature. The NAT is required to share one Internet account with multiple LAN users.

It also is required for certain Firewall features to work properly.

		Wi	reless-N	Pocke	et AP/Ro	uter	AP Router Mode	•
NAT	Port map.	Port fw.	<u>Port tri.</u>	<u>ALG</u>	<u>UPnP</u>	<u>QoS</u>	Routing	

NAT(Network Address Translation) involves re-writing the source and/or destination addresses of IP packets as they pass though a Router or firewall, NAT enable multiple hosts on a private network to access the Internet using a single public IP address.

NAT :

Enable
Disable

Apply



Port Mapping

Port Mapping allows you to redirect a particular range of ports to a computer on your LAN network. This helps you host servers behind the NAT and Firewall.

In the example below, there is a Mail Server that requires ports 22 to 23.

When there is a connection from the Internet on those ports, it will be redirected to the Mail Server at IP address 192.168.0.150.

		Wireles	s-N Poc	ket AP/R	Route	r	AP Ro	uter Mod
AT Po	ort map. Port	fw. Port	tri. <u>ALG</u>	UPnP	<u> </u>	<u>)oS</u>	<u>Routing</u>	
Entries in behind th like a web	this table allow e NAT firewall. 1 b server or mail ble Port Mappir	y you to autor These setting server on the	natically redire s are only nec local network	ect common ne essary if you : .	etwork wish to	services t host som	to a spec the sort of	ific PC server
Descript Local IP Protocol Port ran	ion : : : ge :	Both -	 					
Add	Reset							
NO.	Ort Mapping Ta	able :	Local IF	1	Туре	Port	range	Select
					DOTU			

Port Mapping	
Enable Port Mapping	Tick this box to Enable the Port Mapping feature.
Description:	Enter a name or description to help you identify this entry.
Local IP:	The local IP address of the computer the server is hosted on.
Protocol:	Select to apply the feature to either TCP, UDP or Both types of packet transmissions.
Port range:	The range of ports that this feature will be applied to.



Port Forwarding

Port Forwarding allows you to redirect a particular public port to a computer on your LAN network. This helps you host servers behind the NAT and Firewall.

In the example below, there is a FTP Server running on port 21 on the LAN.

For security reasons, the Administrator would like to provide this server to Internet connection on port 30.

Therefore then there is a connection from the Internet on port 30, it will be forwarded to the computer with the IP address 192.168.0.100 and changed to port 21.

		Wi	reless-N Po	ocket AP/	Router	AP Router Mod	e 🔻
<u>NAT</u>	<u>Port map.</u>	Port fw.	<u>Port tri.</u> <u>A</u>	LG UPnF	<u>2 QoS</u>	Routing	^
You Web rout of yo	can configure t o or FTP at you er will redirect our local PCs) Enable Port F	the router a r local PC. D the externa	s a Virtual Server epending on the r I service request t	allowing remote equested servic to the appropria	users to acces re (TCP/UDP) po te internal serv	as services such as ort number, the ver (located at one	
Des	cription :						
Loc	al IP :						=
Pro	tocol :	E	Both 👻				
Loc	al Port :						
Pub	lic Port :						
Add	dReset						
Curi	rent Port Forw	arding Tabl	e:				
NO.	Descript	ion	Local IP	Local Port	Туре Ри	iblic Port Select	
1	FTP Ser	ver	192.168.0.100	21	BOTH	30	
	Delete Selected	Dele	ete All Reset			Apply Cancel	-

Port Forwarding	
Enable Port	Tick this box to Enable the Port Forwarding feature.
Forwarding	
Description:	Enter a name or description to help you identify this entry.
Local IP:	The local IP address of the computer the server is hosted on.
Protocol:	Select to apply the feature to either TCP, UDP or Both types of packet transmissions.
Local Port:	The port that the server is running on the local computer.
Public Port:	When a connection from the Internet is on this port, then it will be forwarded to the indicated local IP address.



Port Trigger

If you use Internet applications which use non-standard connections or port numbers, you may find that they do not function correctly because they are blocked by the Wireless Router's firewall. Port Trigger will be required for these applications to work.

		Wi	reless-N	l Pock	et AP/Ro	outer	AP Router Mo	ode 🔻
NAT Po	ort map.	<u>Port fw.</u>	<u>Port tri.</u>	<u>ALG</u>	<u>UPnP</u>	<u>QoS</u>	Routing	-
Port Trigg normally I Enal	jering, als do not fur ble Trigge	o called Spe action when er Port	cial Applicati used behind	ons allows a firewall.	you to use Ii	nternet app	lications which	
Descript	ion :	P	C-to-Phone					
Popular	applicatio	ons: F	C-to-Phone	•	Add			
Trigger p	port :	1:	2053 ~					=
Trigger t	ype :	E	loth 👻					
Public Po	ort :	1	2120,12122,24	150-24220				
Public ty	pe:	E	loth 👻					
Add Current 1 NO. Trig	Reset T rigger-P Iger port	ort Table : Trigger type	F	Public Port	:	Public type	Name Selec	t
Delete	Selected	Dele	te All	leset				

Port Trigger	
Enable Port Forwarding	Tick this box to Enable the Port Trigger feature.
Popular applications:	This is a list of some common applications with preset settings. Select the application and click Add to automatically enter the settings.
Trigger port:	This is the outgoing (outbound) port numbers for this application.
Trigger type	Select whether the application uses TCP, UDP or Both types of protocols for outbound transmissions.
Public Port	These are the inbound (incoming) ports for this application.
Public type:	Select whether the application uses TCP, UDP or Both types of protocols for inbound transmissions.



Application Layer Gateway (ALG)

Certain applications may require the use of ALG feature to function correctly. If you use any of the applications listed, please tick and select it to enable this feature.

Wi	reless-N	Pocket	t AP/Rou	uter	AP Router Mode	•
NAT Port map. Port fw.	<u>Port tri.</u>	<u>ALG</u>	<u>UPnP</u>	<u>QoS</u>	Routing	
The ALG (Application Layer Gat application processes so that t	eway) serves hey may exch	the purpose ange inform	e of a windov ation on the	w between open envi	o correspondent ronment.	
Description			Select			
H323						
MMS						
TFTP						
Egg						
IRC						
Amanda						
Quake3						
Talk						
IPsec						
FTP						
SIP						



Universal Plug and Play (UPnP)

The UPnP function allows automatic discovery and configuration of UPnP enabled devices on your network. It also provides automatic port forwarding for supported applications to seamlessly bypass the Firewall.



Universal Plug and Play (UPnP)				
Enable the UPnP Feature:	Tick this box to Enable the UPnP feature to allow supported devices to be visible on the network.			
Allow users to make port forwarding changes through UPnP:	Tick this box to allow applications to automatically set their port forwarding rules to bypass the firewall without any user set up.			



Quality of Service (QoS)

QoS allows you to control the priority that the data is transmitted over the Internet, or to reserve a specific amount of Internet bandwidth. This is to ensure that applications get enough Internet bandwidth for a pleasant user experience.

If not, then the performance and user experience of time sensitive transmissions such as voice and video could be very poor.

In order for this feature to function properly, the user should first set the Uplink and Downlink bandwidth provided by your Internet Service Provider.



Quality of Service (QoS) refers to the capability of a network to provide better service to selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic), and improved loss characteristics. Also important is making sure that providing priority for one or more flows does not make other flows fail .

Total Bandwidth Settings

Uplink	Full	Ŧ	
Downlink	Full	•	
Dominink	T UII	•	

QoS: O Priority Queue O Bandwidth Allocation O Disabled



Total Bandwidth Settings				
Uplink:	Set the Uplink bandwidth provided by your Internet Service Provider.			
Downlink:	Set the Downlink bandwidth provided by your Internet Service Provider.			
Priority Queue	Sets the QoS method to Priority Queue.			
Bandwidth Allocation:	Sets the QoS method to Bandwidth Allocation.			
Disabled	Disables the QoS feature.			



Priority Queue Method

Bandwidth priority is set to either High or Low. The transmissions in the High queue will be processed first.

Unlimited Priority Queue

QoS:

Local IP Address	Description
	The IP address will not be bounded in the

High/Low Priority Queue

Protocol	High Priority	Low Priority	Specific Port
FTP	\odot	۲	20,21
нттр	\odot	۲	80
TELNET	\odot	۲	23
SMTP	\odot	۲	25
POP3	\odot	۲	110
Name:	\odot	۲	Both -
Name:	\odot	۲	Both -
Name:	\odot	۲	Both -

Unlimited Priority Queue				
Local IP Address:	The computer with this IP Address will not be bound by the QoS rules.			
High / Low Priority Queu	e			
Protocol:	The type of network protocol.			
High / Low Priority	Sets the protocol to High or Low priority.			
Specific Port	Each protocol uses a specific port range. Please specify the ports used by this protocol.			



Bandwidth Allocation Method

You can set the **maximum** amount of bandwidth a certain protocol will use at one time. Or you can set a **minimum** amount of bandwidth that will be guaranteed to a certain protocol.

QoS: O Priority Queue O Bandwidth Allocation O Disabled



Current QoS Table:

NO.	Туре	Local IP range	Protocol	Port range	Policy	Rate (bps)	Select
1	Both	192.168.0.100 ~ 192.168.0.103	ТСР	80 ~ 90	Min	2M	
Delete Selected Delete All Reset							

Bandwidth Allocat	tion
Туре:	Set whether the QoS rules apply to transmission that are Download, Upload or Both directions.
Local IP range:	Enter the IP address range of the computers that you would like the QoS rules to apply to.
Protocol:	Select from this list of protocols to automatic set the related port numbers.
Port range:	Each protocol uses a specific port range. Please specify the ports used by this protocol
Policy:	Choose whether this rule is to set a limit on the Maximum amount of bandwidth allocated to this protocol, or to set the guaranteed Minimum amount of bandwidth for this protocol.



Routing

If your TRAVEL ROUTER device is connected a network with different subnets, then this feature will allow the different subnets to communicate with each other.

Note: NAT function needs to be disabled for the Routing feature to be enabled.



Enable Routing

You can enable Static Routing to turn off the NAT function of the router and let the router forward packets by your routing policy .

To take Static Route effect, please disable NAT function.

	Enable Static Routi	ng				
De	stination LAN IP :					
Sul	onet Mask :					
Def	ault Gateway :					
Hoj	os:					
Int	erface :	LAN 👻				
Add	Reset					
Curr	ent Static Routing 1	able :				
NO.	Destination LAN IP	Subnet Mask	Default Gateway	Hops	Interface Selec	t
	elete Selected	Delete All	eset		Apply	Cancel

Static Routing	
Enable Static Routing:	Tick this box to Enable the Static Router feature.
Destination LAN IP:	Enter the IP address of the destination LAN.
Subnet Mask:	Enter the Subnet Mask of the destination LAN IP address
Default Gateway:	Enter the IP address of the Default Gateway for this destination IP and Subnet.
Hops:	Specify the maximum number of Hops in the static routing rule.
Interface:	Select whether the routing applies to LAN or WAN interfaces.





Destination	Subnet Mask	Gateway	Нор	Interface
192.168.1.0	255.255.255.0	192.168.123.216	1	LAN
192.168.0.0	255.255.255.0	192.168.123.103	1	LAN

So if, for example, Client3 wants to send an IP data packet to 192.168.0.2 (Client 2), it would use the above table to determine that it had to go via 192.168.123.103 (Router 2)

And if it sends Packets to 192.168.1.11 (Client 1) will go via 192.168.123.216 (Router 1).



This section allows you to configure some device system settings.

Admin

This page allows you to change the system password and to configure remote management.

	Wireless-N Pocket AP/Router AP Router Mode -							
<u>Admin</u>	<u>Time</u>	DDNS	<u>Power</u> <u>Di</u>	agnosis	<u>Firmware</u>	Back-up	<u>Reset</u>	
You car passwo	You can change the password that you use to access the router, this <u>is not</u> your ISP account password.							
Old Pa	assword :							
New F	Password :							
Repea	Repeat New Password :							
Remote management allows the router to be configured from the Internet by a web browser, A username and password is still required to access the Web-Management interface.								
	Host Add	ress	port	En	able			
			80		v			

Apply Cancel

Change Password	
Old Password:	Enter the current password.
New Password:	Enter your new password.
Repeat New Password:	Enter your new password again for verification.
Remote Management	
Host Address:	You can only perform remote management from the specified IP address. Leave blank to allow any host to perform remote management.
Port:	Enter the port number you want to accept remote management connections.
Enable:	Tick to Enable the remote management feature.



Time

This page allows you to set the system time.

	Wireless-N Pocket AP/Router	AP Router Mode 🗸
Admin <u>Time</u> DDN	I <u>S Power Diagnosis</u> Firmware Back-I	up <u>Reset</u>
The Router reads the corr accordingly. The Daylight s zone setting is used by th files.	ect time from NTP servers on the Internet and sets Savings option merely advances the system clock b e system clock when displaying the correct time in	s its system clock by one hour. The time schedule and the log
Time Setup:	Synchronize with the NTP Server 💌	
Time Zone :	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisb	oon, London 👻
NTP Time Server :		
Daylight Saving :	To January To Ja	v
		Apply Cancel

Time	
Time Setup:	Select the method you want to set the time.
Time Zone:	Select the time zone for your current location.
NTP Time Server:	Enter the address of the Network Time Protocol (NTP) Server to automatically synchronize with a server on the Internet.
Daylight Savings:	Check whether daylight savings applies to your area.



Dynamic DNS (DDNS)

This free service is very useful when combined with the *Virtual Server* feature. It allows Internet users to connect to your Virtual Servers using a URL, rather than an IP Address.

This also solves the problem of having a dynamic IP address. With a dynamic IP address, your IP address may change whenever you connect, which makes it difficult to connect to you.

		Wi	reless-l	N Pocke	t AP/Ro	uter	AP Router Mode	-
<u>Admin</u>	Time	DDNS	<u>Power</u>	<u>Diagnosis</u>	<u>Firmware</u>	<u>Back-up</u>	<u>Reset</u>	
DDNS	allows users	to map a st	atic domain	name to a d	/namic IP ad	dress. You m	ust oet an	

DDNS allows users to map a static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service provider. .

Dynamic DNS :	🖲 Enable 🔘 Disable
Server Address :	DynDNS -
Host Name :	xxxx.dyndns.org
Username :	Username
Password :	•••••

DDNS Services work as follows:

- 1. You must register for the service at one of the listed DDNS Service providers.
- 2. After registration, use the Service provider's normal procedure to obtain your desired Domain name.
- 3. Enter your DDNS data on the ETR-9305's DDNS screen, and enable the DDNS feature.
- 4. The Wireless Router will then automatically ensure that your current IP Address is recorded at the DDNS service provider's Domain Name Server.
- 5. From the Internet, users will be able to connect to your Virtual Servers (or DMZ PC) using your Domain name, as shown on this screen.

Dynamic DNS					
Dynamic DNS	Tick this box to Enable the DDNS feature.				
Server Address:	Select the list of Dynamic DNS homes you would like to use from this list.				
Username / Password:	Enter the Username and Password of your DDNS account.				



Apply Cancel

Power

This page allows you to Enable or Disable the wireless LAN power saving features.

Wireless-N Pocket AP/Router						AP Router Mode	•
Admin	<u>Time</u>	DDNS	<u>Power</u>	<u>Diagnosis</u> <u>Firmware</u>	Back-up	<u>Reset</u>	

You can use the power page to save energy for WLAN interfaces.

Power Saving M	od	e	:
----------------	----	---	---

WLAN:

Enable Oisable

Apply	Cancel
-------	--------



Diagnosis

This page allows you determine if the TRAVEL ROUTER device has an active Internet connection.



This page can diagnose the current network status

Address to Ping :	Start
Ping Result :	

Diagnosis	
Address to Ping:	Enter the IP address you like to see if a successful connection can be made.
Ping Result:	The results of the Ping test.



Firmware

The firmware (software) in the TRAVEL ROUTER device can be upgraded using your Web Browser.

		Wi	reless-	N Pocke	t AP/Ro	uter	AP Router Mode	•
Admin	Time	<u>DDNS</u>	<u>Power</u>	<u>Diaqnosis</u>	<u>Firmware</u>	<u>Back-up</u>	<u>Reset</u>	
You car on the used fo	n upgrade th local hard dr r your updat	e firmware ive of your te.	of the route computer. (er in this page Click on Brows	e. Ensure, the se to browse Browse	e firmware yo and locate tl	ou want to use is he firmware to be	

To perform the Firmware Upgrade:

- 1. Click the **Browse** button and navigate to the location of the upgrade file.
- 2. Select the upgrade file. Its name will appear in the *Upgrade File* field.
- 3. Click the **Apply** button to commence the firmware upgrade.

Note: The Wireless Router is unavailable during the upgrade process, and must restart when the upgrade is completed. Any connections to or through the Wireless Router will be lost.

Cancel

Apply



Back-up



Use BACKUP to save the routers current configuration to a file named config.dlf. You can use RESTORE to restore the saved configuration. Alternatively, you can use RESTORE TO FACTORY DEFAULT to force the router to restore the factory default settings.



Back-up	
Restore to factory default:	Restores the device to factory default settings.
Backup Settings:	Save the current configuration settings to a file.
Restore Settings:	Restores a previously saved configuration file. Click Browse to select the file. Then Upload to load the settings.


Reset

In some circumstances it may be required to force the device to reboot.

Wireless-N Pocket AP/Router					AP Router Mode	•		
<u>Admin</u>	<u>Time</u>	DDNS	Power	<u>Diagnosis</u>	<u>Firmware</u>	<u>Back-up</u>	<u>Reset</u>	

In the event the system stops responding correctly or stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, click on the APPLY button.

Apply Cancel



8.3 AP and Client Bridge Modes

When the TRAVEL ROUTER device is set to AP or Client Bridge modes, it will no longer allocate IP addresses to its wireless clients.

To access the Web-Based configuration page, please follow the following steps to set a static IP address (Windows XP/Vista).

- **1.** Connect to the TRAVEL ROUTER using an Ethernet CAT.5 LAN Cable.
- 2. Click Start and open Control Panel.



Windows XP



Windows Vista



3. Windows XP, click [Network Connection]



Windows Vista, click [View Network Status and Tasks] then [Manage Network Connections]



Network and Internet Connect to the Internet <u>View network status and tasks</u> Set up file sharing

Tasks
View computers and devices
Connect to a network
Set up a connection or network
Manage network connections
Diagnose and repair

4. Right click on [Local Area Connection] and choose [Properties].





 Check "Client for Microsoft Networks", "File and Printer Sharing", and "Internet Protocol (TCP/IP) is ticked. If not, please install them.



6. Select "Internet Protocol (TCP/IP)" and click [Properties]





7. Manually set the IP Address. Then click [OK]

For example: IP Address: 192.168.0.250 Subnet Mask: 255.255.255.0

nternet Protocol Version 4 (TCP/IPv4)	Properties ? X				
General					
You can get IP settings assigned auto this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator				
Obtain an IP address automatically					
Use the following IP address: —					
IP address:	192.168.0.250				
Subnet mask:	255 . 255 . 255 . 0				
Default gateway:	•••				
Obtain DNS server address automatically					
Ose the following DNS server add	dresses:				
Preferred DNS server:					
Alternate DNS server:	• • •				
	Advanced				
	OK Cancel				



8. You should now be able to access the Web-Based configuration in your Web Browser.



9. Remember to configure the settings back to **Obtain an IP Address Automatically** and **Obtain DNS Server Address Automatically** once you complete configuring the Web-Based interface.

General	Alternate Configuration				
You car this cap for the	n get IP settings assigned au ability. Otherwise, you nee appropriate IP settings.	utomatically if d to ask your r tically	your n networ	etwork s k admin	supports istrator
O Us	e the following IP address:				
IP ac	ldress:				
Subr	iet mask:				
Defa	ult gateway:	÷	56	3	7
	otain DNS server address au	utomatically			
O Us	e the following DNS server	addresses:			-0
Prefe	erred DNS server:			3	
Alter	nate DNS server:			+	
				Adva	anced
		_			



8.4 Client Bridge Mode

The Client Bridge mode turns the TRAVEL ROUTER into a wireless client, which then allows non-wireless devices to use its RJ45 port to access the network wirelessly.

8.4.1 Wireless

This section allows you to configure which wireless network the TRAVEL ROUTER will connect to.

Basic

- 1. Configure which wireless network the TRAVEL ROUTER will connect to in the Wireless Basic page.
- 2. Use the Site Survey button to scan the area for available wireless networks.





3. Select the SSID (wireless network) that you would like to connect to, and then click Add to AP Profile.

NO.	Select	Channel	SSID	BSSID	Encryption	Auth	Signal (%)	Mode
1	۲	1	SENAOWL	00:97:53:AA:11:1C	WEP	AUTOWEP	65	11b/g/n
2	\odot	1	SENAOWL	00:02:6F:53:0C:9B	WEP	AUTOWEP	81	11b/g
3	\odot	1	SENAOWL	00:02:6F:36:9C:9A	WEP	AUTOWEP	70	11b
4	\odot	1	SENAOVIP	00:02:6F:E0:02:12	NONE	OPEN	44	11b/g
5	\odot	1	EnGenius2	06:02:6F:10:10:12	NONE	OPEN	44	11b/g
6	\odot	1	EnGenius1	00:02:6F:10:10:12	NONE	OPEN	34	11b/g
7		- 1	CENAOW	00.02.65.49.00.97			E E	11b/a

4. Enter the wireless security settings for this SSID. Then click **Save** to apply the settings.

AP Profile Settings

Network Name (SSID) :	SENAOWL		
Encryption :	WEP -		
Authentication Type :	● Open System ○ Shared Key		
Key Length :	64-bit 👻		
Key type :	Hex (10 characters) 👻		
Default key :	Key 1 🔻		
Encryption Key 1 :	*****		
Encryption Key 2 :	*****		
Encryption Key 3 :	*****		
Encryption Key 4 :	*****		

5. Change your IP Address settings back to **Obtain your IP Address Automatically**. You should now be connected to the wireless network through the TRAVEL ROUTER.



Site Survey

AP Profiles

You can save the settings up to three wireless networks. The TRAVEL ROUTER will automatically connect to the wireless network in order of priority.



AP Profile				
Add: Manually Add a new SSID (wireless network) profile.				
Edit:	Edit the SSID settings.			
Move Up / Down:	Change the priority that the TRAVEL ROUTER will connect to these SSID's.			
Delete Selected:	Deletes the selected SSID profile.			
Delete All:	Deletes all SSID profiles.			
Connect:	Force connection to this SSID.			



Appendix A – FCC Interference Statement

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.

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Appendix B – IC Interference Statement

Industry Canada statement:

This device complies with RSS-210 of the Industry Canada 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:

Radiation Exposure Statement:

This equipment complies with IC 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 device has been designed to operate with an antenna having a maximum gain of 2 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

