



ALL0235mini

Wireless 11n 1T1R Router



User's Manual

Version 2.1

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.

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 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility and R&TTE Directive 1999/5/EC to meet the regulation of the radio equipment and telecommunications terminal equipment.

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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 Router
2. One USB cable
3. One CD

Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

Conventions

The router mentioned in this guide stands for IEEE 802.11n Wireless 1T1R Router without any explanation.

Chapter 1 Introduction to the Wireless Router

1.1 General Description

This is a wireless router with 1T1R MIMO technology, providing an excellent network solution for home, SOHO and hotspot users. It complies with standards IEEE 802.11n with data rate up to 150 Mbps, and IEEE 802.11b/g with maximum data rate of 54 Mbps. It can also interoperate with all the 11/54 Mbps wireless (802.11b/g) products.

The router allows multiple users to share one broadband connection, as well as secures your private network. LAN users can share files, printers, or playing network games.

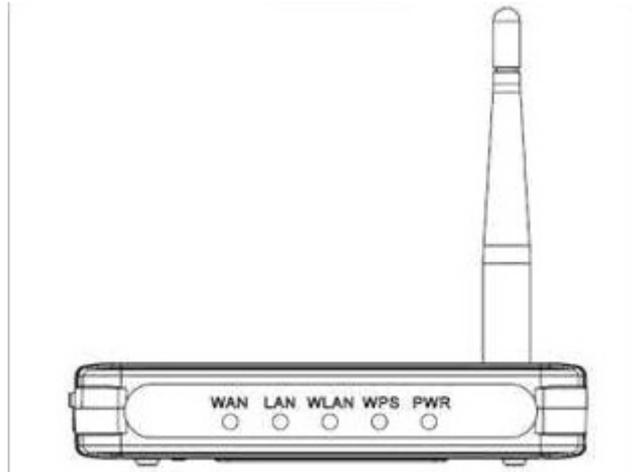
As to information security, this router supports up-to-date security encryption, such as WPA, WPA2, open shared key, and pair-wise key authentication services, ensuring you the best encryption types. What's more, this router supports energy efficient Ethernet and saves power consumption, preferring a cost-effective network connection.

1.2 Key Features

- Comply with IEEE 802.11n and IEEE802.11b/g wireless standards
- 2.4GHz frequency band and 1T1R
- High speed transfer rate up to 150Mbps
- Support auto-MDI/MDI-X, backpressure and flow control
- Support Wireless access control by MAC address (deny or accept)
- Support wireless encryption for WEP, WPA-PSK, WPA2-PSK and WPA2-Mixed
- Support WAN Access Type: Static IP, DHCP Client, PPPoE
- Support IEEE802.3az Energy Efficient Ethernet
- Provide one WPS/Reset button
- Provide one slide switch to control AP/Router mode
- Support WPS in AP mode.
- Support WMM funcion.
- Support Multiple APs(up to 4 AP SSID(including primary)) in Router and AP mode.
- Support Firewall security with MAC filtering.
- Support NAT IP Sharing
- Supports DHCP server to provide clients auto IP addresses assignment
- Supports Statistics, VPN Pass-through, System Log

1.3 The Front Panel

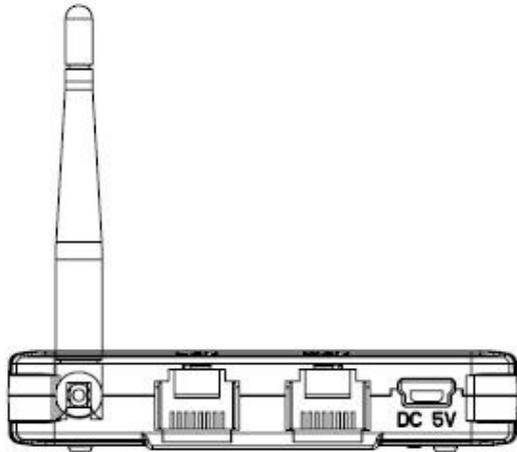
The front panel of the Wireless Router:



Name	Status	Indication
PWR	Green	Power on
	Dark	Power off
WPS	Blink green one time	System reboot
	Blink green	WPS connecting
	Dark	System stability
WLAN	Off	The wireless function is disabled.
	Flashing	The wireless function is enabled.
	Flashing fast	Sending or receiving data over wireless.
WAN / LAN	Off	There is no device linked to the corresponding port or the connection is dropping off.
	On	There are devices linked to the corresponding ports but no data transmitted or received.
	Flashing	Sending or receiving data over corresponding port.

1.4 The Rear Panel

The rear panel of the Wireless Router is shown below.



- **LAN:** Through this port, you can connect the router to your PCs and the other Ethernet network devices.
- **WAN:** This WAN port is where you will connect the cable/DSL Modem, or Ethernet.
- **DC IN:**
Plug the circle end of the USB cable firmly into the rear panel of the router, and put the other end into an electric service outlet, then the system is ready.
- **WPS/Reset Button:**
Click this button for once it means to start PBC configuration method, in which users can easy setup WPS connection.
If you 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 then system reboot. Approximately 60 seconds later, the whole system parameters have returned to factory default value. If the process has been interrupted by any reason(like power off), the system will fail. Before perform the process, please ensure a safe operating environment!
- **Antenna:** The function of the antenna is to enhance the wireless signal and expand the range of signal.

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!

Chapter 2 Installation and Basic Configuration

This chapter will guide you steps by steps to install and configure the Wireless Router. We suggest you go over the whole chapter first and then do more advanced operation.

2.1 Operation Mode

In this device, there are two modes for your selection:

- **AP mode**
- **Router mode**

Different mode functions different. You can glide the slide switch on the left side of the device to the left hand side (AP mode) or right hand side (Router mode) to choose the mode you want.

Before installation, please choose an operation mode first and then go on other configurations.

2.2 Connect This Router to Your Network

Steps to build up the network:

1. 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.
2. **A---Router Mode:** Connect the ADSL or cable modem to the Ethernet WAN port on the back of the Wireless Router by using the UTP cable.
B---AP Mode: Connect a router to one of the two ports on the back of this device by using the UTP cable.
3. Plug-in the USB cable 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.
4. Connect the computer to the Wireless Router by using standard twisted-pair Ethernet cable from the computer's Ethernet card to a 10/100Mbps Ethernet LAN port on the back of the Wireless Router. (In AP mode both the ports can be used as LAN ports)
5. Plug the USB cable (mini-USB cable) into the router port and put the other end into an electric service outlet (5V/1A DC).

2.3 Configure the IP Address of Your Computer

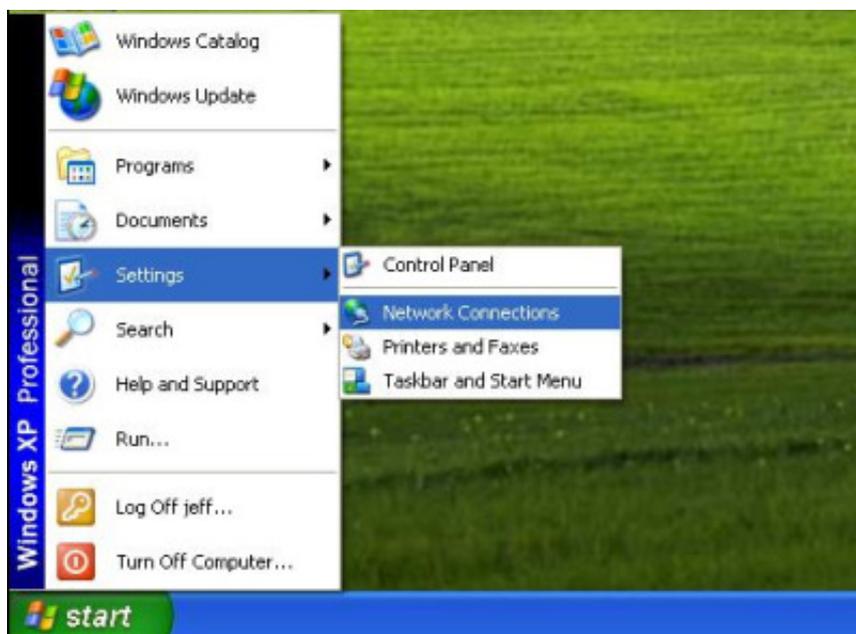
In order to communicate with this Wireless Router, you have to configure the IP address of your computer to make it compatible with the device.

Note: The router supports DHCP server and it is enabled as default. Users who configure his IP address as “**Obtain an IP address automatically**” may skip the following IP configuration instruction.

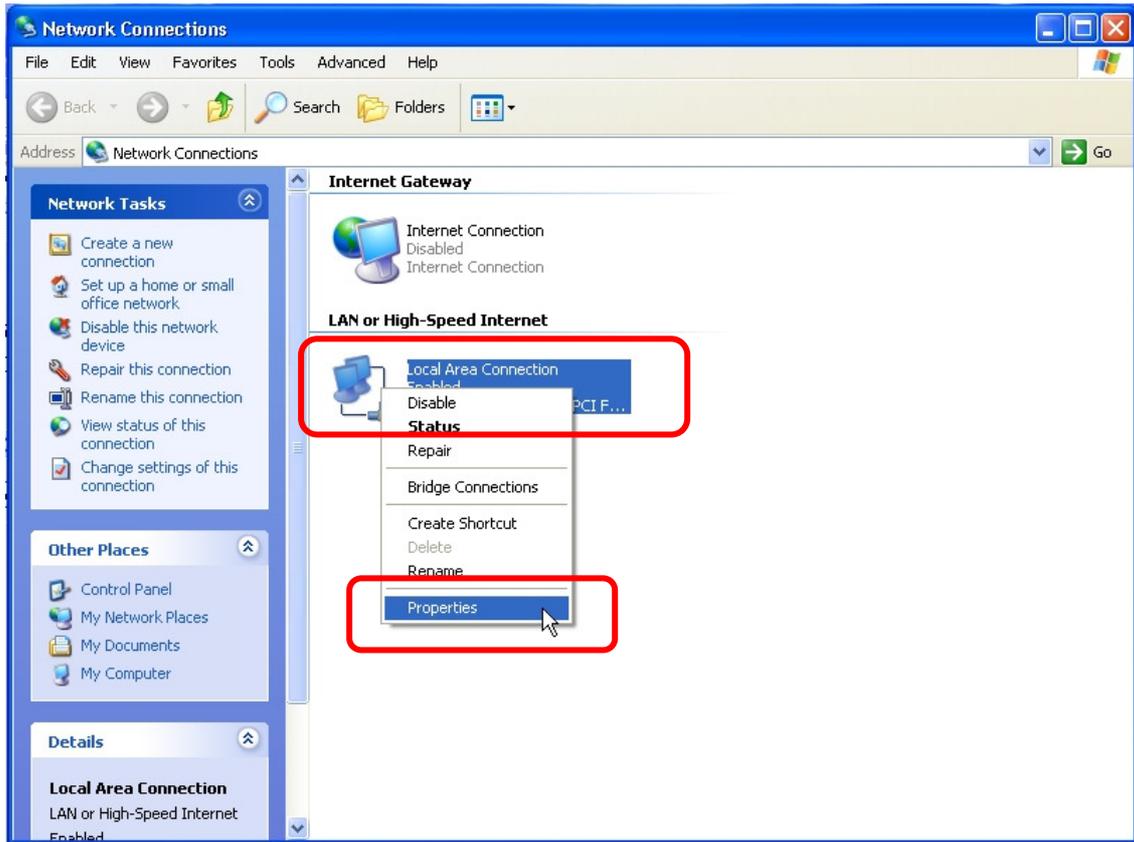
1. The default network setting of the device:
IP address: 192.168.100.1
Subnet Mask: 255.255.255.0
DHCP Server: enable
2. In the following TCP/IP configuration guide, the IP address “192.168.100.2” is assumed to be your IP address if you want to specify IP addresses manually. Please **DO NOT** choose “192.168.100.1” as the IP address, for the IP address “192.168.100.1” 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:

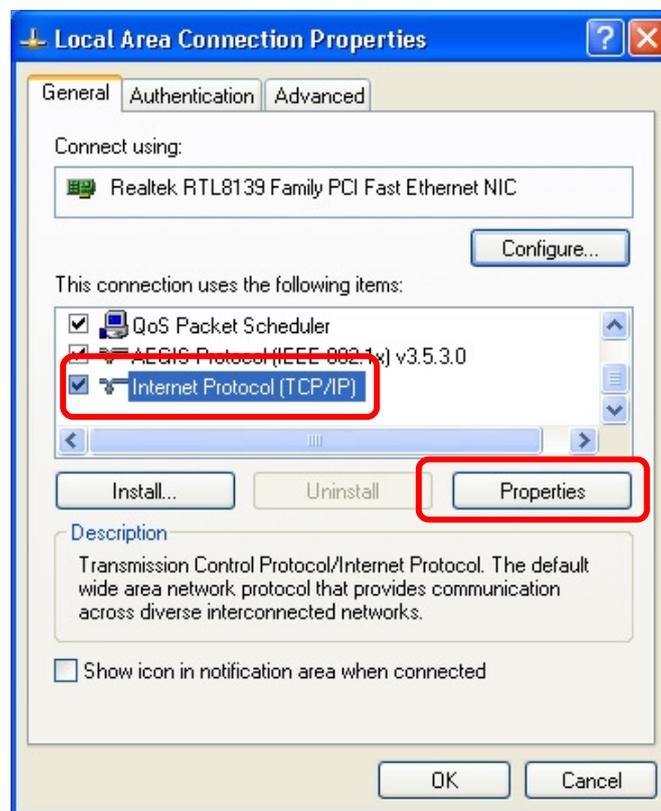
1. If you are in Classic Start menu view, click **Start > Settings > Network Connections**.
If you are in Start menu view, click **Start > Control Panel > Network Connections**.



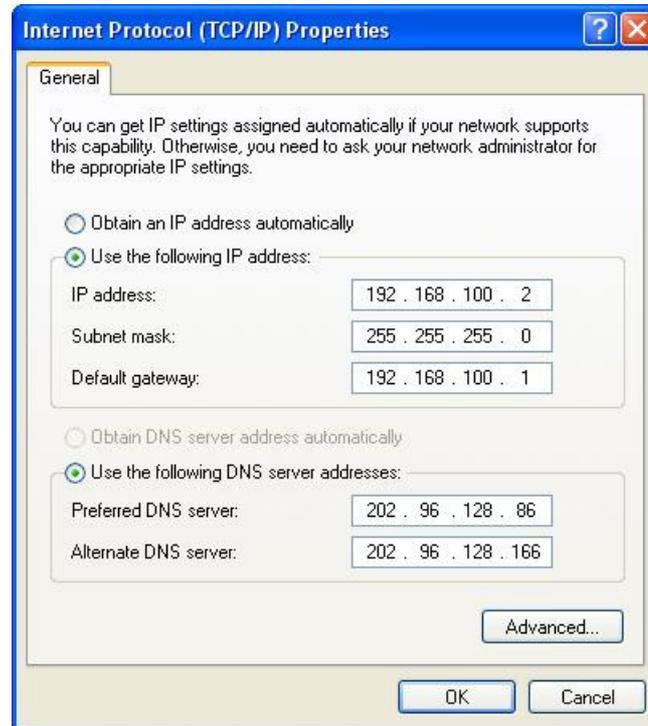
2. Right-click **Local Area Connection** item and click **Properties**.



3. Choose **Internet Protocol (TCP/IP)** and click **Properties**.



4. You may choose **Obtain an IP address automatically** (recommend) to get an IP address automatically. Or you can choose **Use the following IP address** to specify an IP address manually. Please click the **OK** button after your configuration.

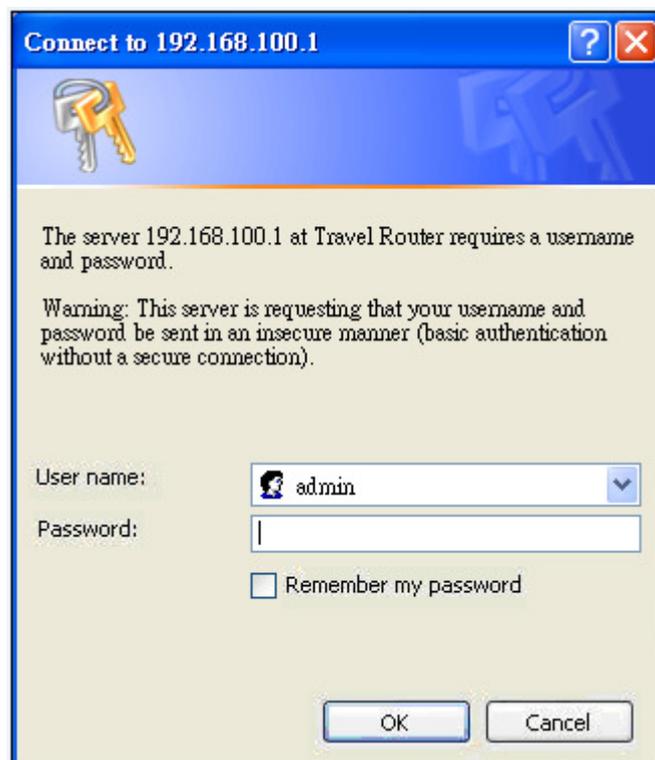


Chapter 3 Web-Based Management

3.1 Start the Web-Based Management Interface

The device uses Web as the management interface. You can use a browser to access the management interface easily. Please follow the steps listed below.

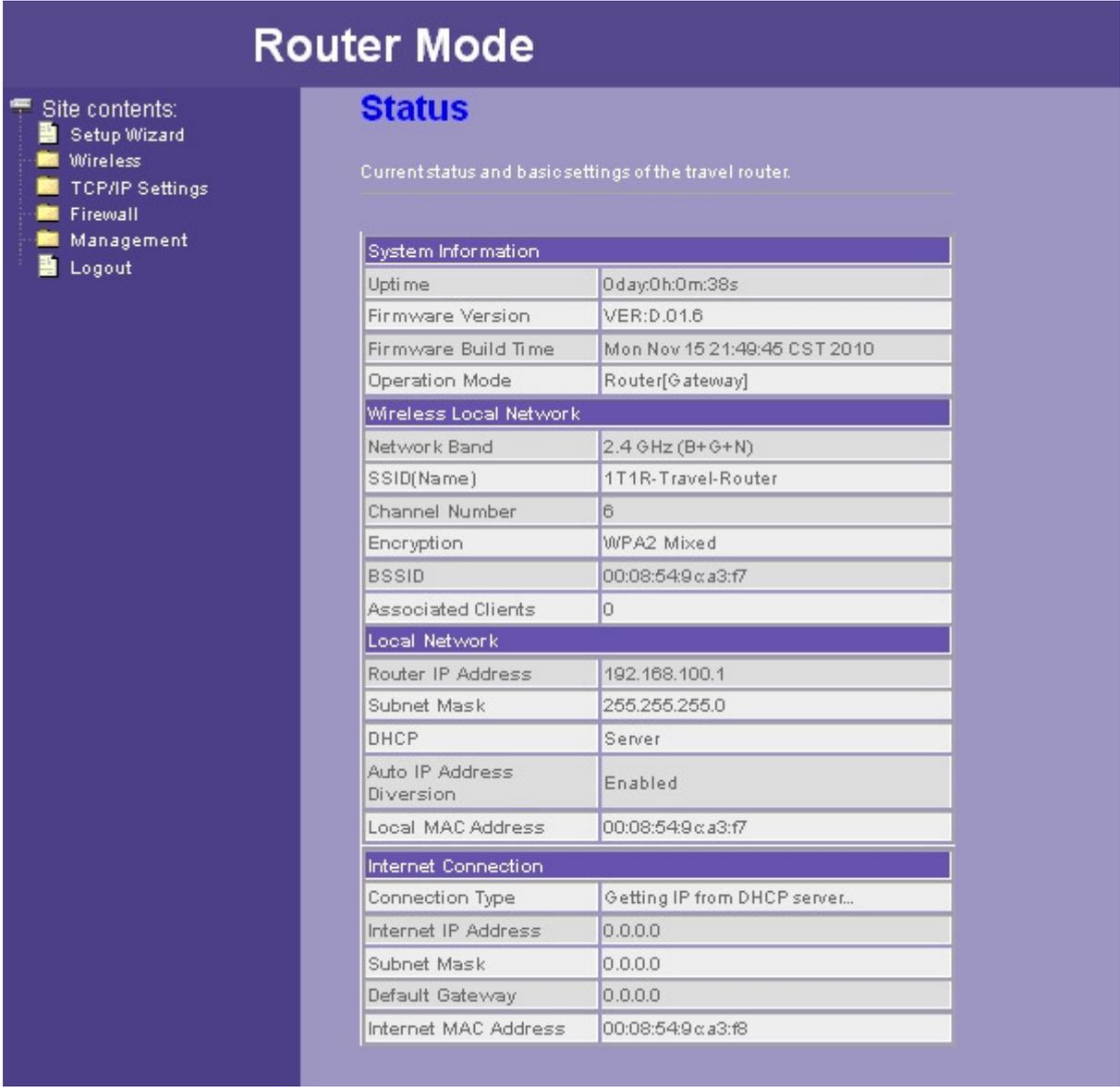
1. Open the Internet Web browser.
2. Type **192.168.100.1** into the URL Web address location and press Enter.
3. The Login window appears.
 - Enter **admin** in the User Name location (default value).
 - Enter **admin** in the Password location (default value).
 - Click **OK** button.



3.2 The Graphic User Interface

After the password authorization, the information page shows up as the home page of the graphic user interface. You may click the menu link on left column of the window to get access to each configuration page.

Router Mode:



The screenshot shows the 'Router Mode' web interface. On the left is a navigation menu with 'Site contents:' and links for 'Setup Wizard', 'Wireless', 'TCP/IP Settings', 'Firewall', 'Management', and 'Logout'. The main area is titled 'Status' and contains the text 'Current status and basic settings of the travel router.' Below this are four tables of configuration data.

System Information	
Uptime	0 day:0h:0m:38s
Firmware Version	VER:D.01.6
Firmware Build Time	Mon Nov 15 21:49:45 CST 2010
Operation Mode	Router[Gateway]

Wireless Local Network	
Network Band	2.4 GHz (B+G+N)
SSID(Name)	1T1R-Travel-Router
Channel Number	6
Encryption	WPA2 Mixed
BSSID	00:08:54:9c:a3:f7
Associated Clients	0

Local Network	
Router IP Address	192.168.100.1
Subnet Mask	255.255.255.0
DHCP	Server
Auto IP Address Diversion	Enabled
Local MAC Address	00:08:54:9c:a3:f7

Internet Connection	
Connection Type	Getting IP from DHCP server...
Internet IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
Internet MAC Address	00:08:54:9c:a3:f8

AP Mode:

AP Mode

- Site contents:
 - Setup Wizard
 - Wireless
 - TCP/IP Settings
 - Management
 - Logout

Status

Current status and basic settings of the travel router.

System Information	
Uptime	0day:0h:1m:20s
Firmware Version	VER:D.01.6
Firmware Build Time	Mon Nov 15 21:49:45 CST 2010
Operation Mode	AP[Bridge]

Wireless Local Network	
Network Band	2.4 GHz (B+G+N)
SSID(Name)	1T1R-Travel-Router
Channel Number	11
Encryption	WPA2 Mixed
BSSID	00:08:54:9c:a3:f7
Associated Clients	0

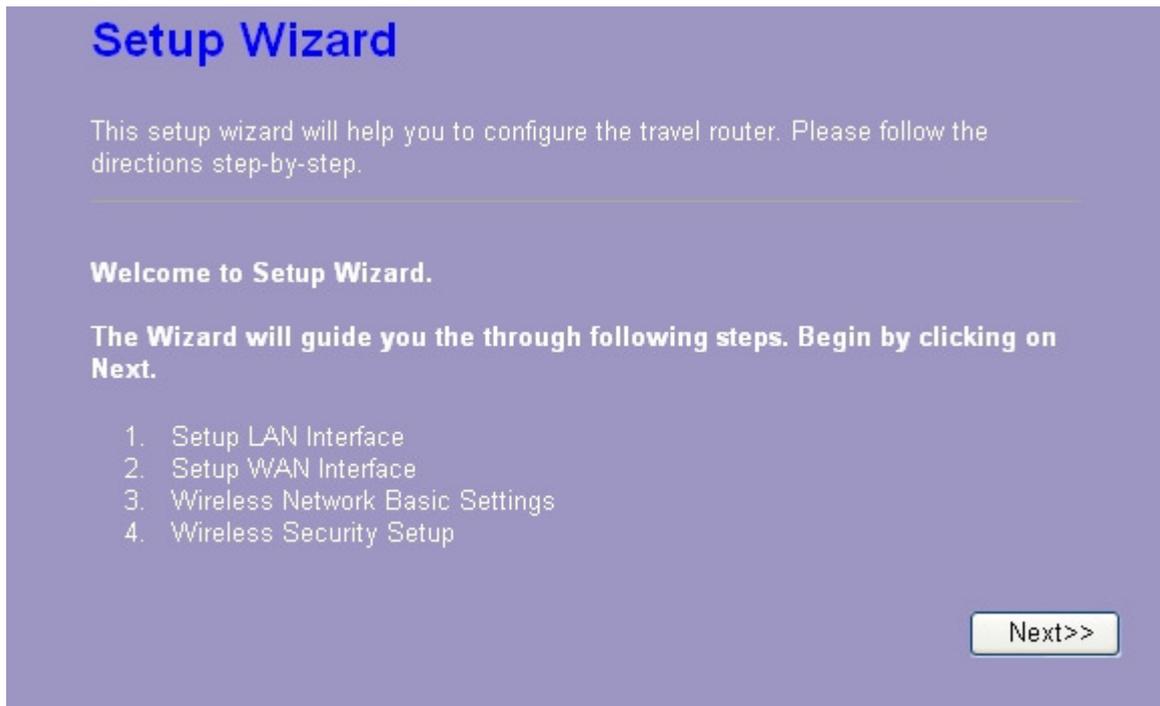
Local Network	
Router IP Address	192.168.100.1
Subnet Mask	255.255.255.0
DHCP	Client
Auto IP Address Diversion	Enabled
Local MAC Address	00:08:54:9c:a3:f7

3.3 Setup Wizard

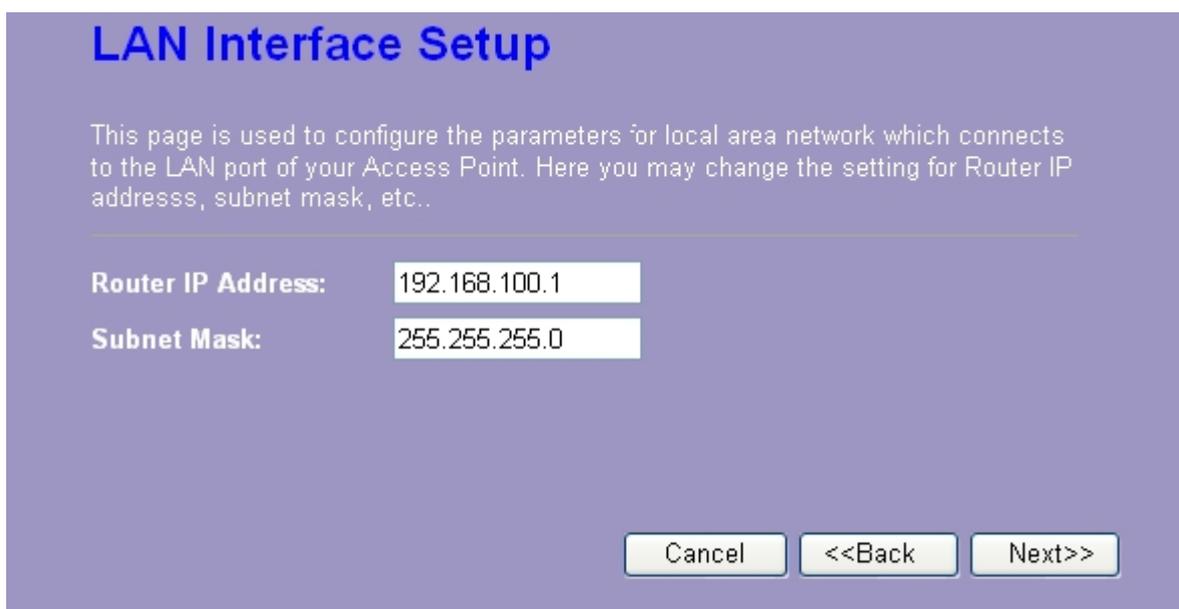
If you are using the router for the first time, please follow the procedures of the setup wizard to do a step-by-step configuration.

Note: The configurations in AP and Router modes are almost the same. The following guide mainly introduces this device under the Router mode environment. Users want to do management in AP mode please refer to the Router mode. The following instruction makes an overall introduction to the Setup Wizard

1. Click “Setup Wizard” on the left menu link, and then click the “Next” button to proceed.



2. Click “Next” button, the “LAN Interface Setup” pops out.



3. Click “Next” button, the “WAN Interface Setup” pops out. Or you can click “Back/Cancel” for any changing. You may get those parameters from your ISP. WAN Access Type: Static IP, DHCP Client and PPPoE.

WAN Interface Setup

Configure the parameters for the Internet network which connects to the WAN port of your travel router. Here you may change the access method to a static IP address, DHCP client, or PPPoE client.

WAN Access Type: DHCP Client ▼

Cancel <<Back Next>>

4. Click “Next” button, the “Wireless Network Basic Settings” pops out.

Wireless Network Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point.

Disable Wireless Network

Network Band: 2.4 GHz (B+G+N) ▼

SSID(Router Name): 1T1R-Travel-Router

Channel Width: 40MHz ▼

Channel Number: Auto ▼

Cancel <<Back Next>>

5. Click “Next” button, the “Wireless Security Setup” pops out.



Having finished these steps, you can use the router to surf the Internet. If you need more detailed information, please refer to the following instruction.

3.4 Wireless

3.4.1 Basic Settings

You can set up the configuration of your Wireless basic settings and monitor the Wireless Clients associate with your router.

Items	Information
Disable Wireless Network	Mark the checkbox to disable the Wireless Network.
Network Band	We provide six modes for your selection: 2.4GHz (B), 2.4 GHz (G), 2.4 GHz (N), 2.4GHz (B+G), 2.4 GHz (G+N), 2.4 GHz (B+G+N). Click the drop list, you may select one type of network band.
Multiple AP	The  button is to show and update the wireless settings for Multiple APs. Click this button to do more configurations.
SSID	Service set identifier (SSID) for the name of the wireless network.
Channel Width	Select 20MHz or 40MHz (40MHz only support in 11n mode) as the wireless channel frequency.
Channel Number	Select a channel for the wireless network of this device.
Country	It contains USA(FCC), Canada(IC), Europe(ETSI), Spain, France, Japan(MKK) for your selection.

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 be more safe.
Associated Client	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.

* Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

1. Multiple APs

This is the window that pops up after clicking the  button.

Multiple APs

This page shows and updates the wireless setting for multiple APs.

No.	Enable	SSID	Broadcast SSID	Active Client List
SSID2	<input type="checkbox"/>	1T1R-Travel-Rou	Enabled ▾	Show
SSID3	<input type="checkbox"/>	1T1R-Travel-Rou	Enabled ▾	Show
SSID4	<input type="checkbox"/>	1T1R-Travel-Rou	Enabled ▾	Show

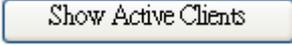
Click "Enable" to activate this AP, and then click the button "Show", "Active Wireless Client Table – AP1" window pops up as the following:

Active Wireless Client Table - AP1

This table shows the MAC address, transmission, reception packet counters and encrypted status for each associated wireless client.

MAC Address	Mode	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)
None	---	---	---	---	---	---

2. Active Wireless Client Table

This is the window that pops up after clicking the  button.

Active Wireless Client Table

This table shows the MAC address, transmission, reception packet counters and encrypted status for each associated wireless client.

MAC Address	Mode	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)
None	---	---	---	---	---	---

3.4.2 Advanced Settings

You can set advanced wireless LAN parameters for this router. We recommend not changing these parameters unless you know what changes will be on this router.

Wireless Advanced Settings

For technically advanced users who have a sufficient knowledge of wireless LANs. These settings should not be modified unless you know the effect the changes will have on your travel router.

Fragment Threshold: (256-2346)

RTS Threshold: (0-2347)

Beacon Interval: (20-1024 ms)

Preamble Type: Long Preamble Short Preamble

RF Output Power: 100% 70% 50% 35% 15%

Items	Information
Fragment Threshold	This value should remain at its default setting of 2346. If you experience a high packet error rate, you may slightly increase your fragmentation threshold within the value range of 256 to 2346. Setting the fragmentation threshold too low may result in poor performance.
RTS Threshold	Request To Send threshold. This value should remain at its default setting of 2347. If you encounter inconsistent data flow, only minor modifications to the value range between 0 and 2347 are

	recommended.
Beacon Interval	Beacons are packets sent by an access point to synchronize a wireless network. Specify a beacon interval value. Default (100ms) is recommended.
Preamble Type	The length of CRC blocks in the frames during the wireless communication.
RF Output Power	Select the signal strength for the wireless network.

* Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

3.4.3 Security

The Security function protects your wireless network from invasion. We provide WEP and WPA encryption to secure your wireless network. Please select “Disable”, “WEP”, “WPA-PSK”, “WPA2-PSK”, or “WPA2-Mixed” in the drop list. If you select “Disable”, any data will be transmitted without encryption and any station can access the router.

Items	Information
Select SSID	Please choose a SSID you have set for this router in the Wireless > Basic Settings from the drop-down list. The SSID will be shown on the wireless network for recognizing.
Encryption	There are 5 modes for you to select: Disable, WEP, WPA-PSK, WPA2-PSK and WPA2-Mixed. Please refer to the following description. Note: WEP & TKIP unsupported in 11n Mode, It's only support in 11g mode.

Show Password	Select to show the password or not.
----------------------	-------------------------------------

* Please click on the **Apply Changes** button or the **Reset** button to save/reset the configurations.

1. Security Mode – Disable

Select “Disable” means to access your wireless network without any encryption.

Wireless Security Setup

Configure the wireless security for the travel router. Enable WEP or WPA encryption to prevent unauthorized access to your wireless network.

Select SSID: 1T1R-Travel-Router

Encryption:

2. Security Mode -- WEP

Wireless Security Setup

Configure the wireless security for the travel router. Enable WEP or WPA encryption to prevent unauthorized access to your wireless network.

Select SSID: 1T1R-Travel-Router

Encryption:

Authentication: Open System Shared Key Auto

Key Length:

Key Format:

Encryption Key:

Show Password:

Items	Information
Select SSID	Please choose a SSID you have set for this router in the Wireless > Basic Settings from the drop-down list. The SSID will be shown on the wireless network for recognizing.
Encryption	Select a security encryption mode for this router.

Authentication	There provide three options for selecting: Open System, Shared Key, Auto.
Key Length	Select “64-bit” or “128-bit” as the key encryption length.
Key Format	Select “ASCII ¹ ” or “Hex ² ” to setup the key value.
Encryption Key	Enter the key according to the key format you select.
Show Password	Select to show the password or not.

* Please click on the **Apply Changes** button or the **Reset** button to save/reset the configurations.

3. Security Mode – WPA / WPA 2-PSK

Wireless Security Setup

Configure the wireless security for the travel router. Enable WEP or WPA encryption to prevent unauthorized access to your wireless network.

Select SSID: 1T1R-Travel-Router

Encryption: WPA-PSK

WPA Cipher Suite: TKIP AES

Pre-Shared Key Format: Passphrase

Pre-Shared Key: [Redacted]

Show Password:

Wireless Security Setup

Configure the wireless security for the travel router. Enable WEP or WPA encryption to prevent unauthorized access to your wireless network.

Select SSID: 1T1R-Travel-Router

Encryption: WPA2-PSK

WPA2 Cipher Suite: TKIP AES

Pre-Shared Key Format: Passphrase

Pre-Shared Key: [Redacted]

Show Password:

¹ ASCII (American Standard Code for Information Interchange) is a code for representing English letters as numbers from 0-127.

² Hexadecimal digits consist of the numbers 0-9 and the letters A-F.

Items	Information
Select SSID	Please choose a SSID you have set for this router by clicking “Wireless > Basic Settings” from the drop-down list. The SSID will be shown on the wireless network for your recognition.
Encryption	Select a security encryption mode for this router.
WPA/WPA2 Cipher Suite	WPA Cipher Suite: the default setting is TKIP. WPA2 Cipher Suite: the defaulting setting is AES
Pre-Shared Key Format	To decide the format, select “Passphrase” or “Hex” in the drop list.
Pre-Shared Key	Enter the “Pre-shared Key” according to the pre-shared key format you select. This is the shared secret between AP and STA. This field must be filled with character longer than 8 and less than 64 lengths.
Show Password	Select to show the password or not.

* Please click on the **Apply Changes** button or the **Reset** button to save/reset the configurations.

4. Security Mode – WPA2-Mixed

Items	Information
Select SSID	Please choose a SSID you have set for this router by clicking “Wireless > Basic Settings” from the drop-down list. The SSID will be shown on the wireless network for your recognition.
Encryption	Select a security encryption mode for this router.
WPA / WPA2 Cipher Suite	The Cipher Suite is mixed (TKIP and AES).
Pre-Shared Key Format	To decide the format, select “Passphrase” or “Hex” in the drop list.
Pre-Shared Key	Enter the “Pre-shared Key” according to the pre-shared key format you select. This field must be filled with character longer than 8 and less than 64 lengths.
Show Password	Select to show the password or not.

* Please click on the **Apply Changes** button or the **Reset** button to save/reset the configurations.

3.4.4 Access Control

To restrict the station access authentication of the clients, you can set up the control list in this page.

Items	Information
Wireless Access Control Mode	Click the drop list to choose the access control mode. You may select “Allow listed” to give those MAC addresses access to this device or select “Deny Listed” to ban it or select “Disable”.
MAC Address & Comment	Fill in the MAC address that you wish to control, and give a definition to it.
Current Access Control list	List the MAC Access Control settings you have added before. Click on the list to change configuration. To Delete the station on the list, mark the check box in the select item and click the “Delete Selected”. If you want to delete all stations on the list, click “Delete All” to remove all of them.

* Please click on the **Apply Changes** button or the **Reset** button to save/reset the configurations.

3.4.5 Wireless Site Survey (only in AP mode)

If you are under the **Wireless AP mode**, click **Wireless > Wireless Site Survey** in the menu links to display the screen as shown below.

1. The following page which provides tool to scan the wireless network pops out.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Site Survey

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
None						

Next>>

2. Click the "Site Survey" button can scan nearby Router and AP. This page shows the available wireless networks information. When you use this device as a station (STA), you may connect to other AP.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Site Survey

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
shawn test ap	00:e0:4c:81:aa:99	1 (B+G+N)	AP	WPA2-PSK	40	<input type="radio"/>
ZuniConnect	00:25:9c:09:c0:cb	6 (B+G)	AP	WPA- PSK/WPA2- PSK	40	<input type="radio"/>
W142C-Travel-Router	00:08:54:9c:a3:f7	11 (B+G)	AP	WEP	38	<input type="radio"/>
W440A	00:e0:7d:c0:c7:d1	1 (B+G)	AP	WPA2-PSK	30	<input type="radio"/>
TW-4F	00:08:54:9a:79:23	1 (B+G+N)	AP	WEP	22	<input type="radio"/>

Next>>

3. Select one of the networks existing in the list of the site survey table and then click “Next” button, then the following page pops out.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Site Survey

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
shawn test ap	00:e0:4c:81:aa:99	1 (B+G+N)	AP	WPA2-PSK	40	<input type="radio"/>
ZuniConnect	00:25:9c:09:c0:cb	6 (B+G)	AP	WPA-PSK/WPA2-PSK	40	<input type="radio"/>
W142C-Travel-Router	00:08:54:9c:a3:f7	11 (B+G)	AP	WEP	38	<input checked="" type="radio"/>
W440A	00:e0:7d:c0:c7:d1	1 (B+G)	AP	WPA2-PSK	30	<input type="radio"/>
TW-4F	00:08:54:9a:79:23	1 (B+G+N)	AP	WEP	22	<input type="radio"/>

Next>>

4. In this page, you can input the selected AP’s password, then click “connect ” button to start connection with wireless network.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Encryption: WEP ▾

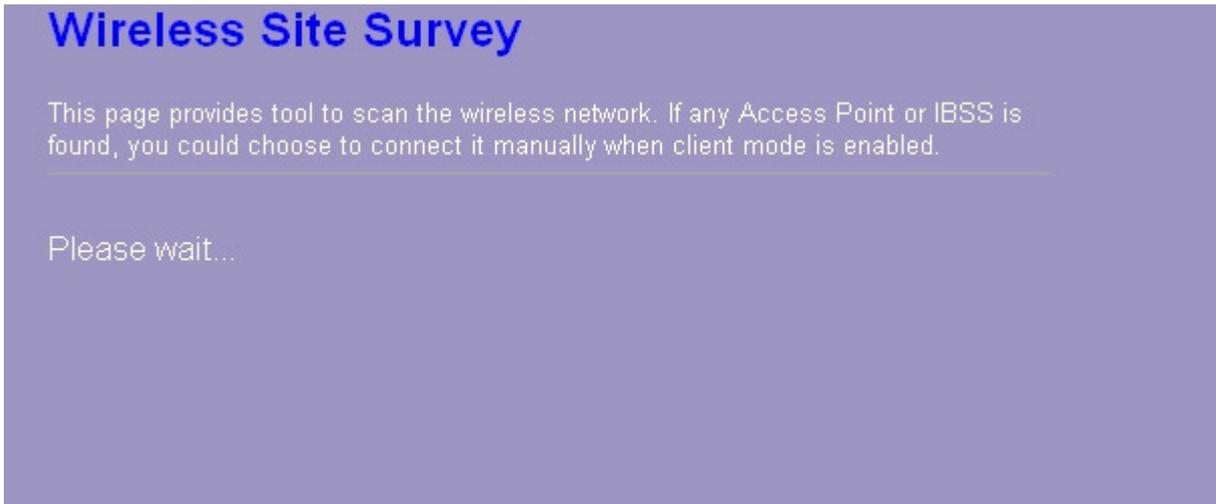
Key Length: 64-bit ▾

Key Format: ASCII ▾

Key Setting:

<<Back Connect

5. In connection process, the following page pops out. Please waiting for the connection result.



6. When connection is successful, the following page pops up.



7. You can go back to the Management > Status page and confirm the connection's states.

Status

Current status and basic settings of the travel router.

System Information	
Uptime	0day 0h 2m 58s
Firmware Version	VER:D.01.7(DC)
Firmware Build Time	Mon Nov 15 21:49:45 CST 2010
Operation Mode	AP[Bridge]

Wireless Internet Network	
Network Band	2.4 GHz (B+G+N)
Internet SSID(Name)	W142C-Travel-Router
Channel Number	11
Encryption	WEP 64bits
BSSID	00:08:54:9c:a3:f7
State	Connected

Wireless Local Network	
SSID(Name)	T11R-Travel-Router-VAP
Encryption	Disabled
BSSID	00:e0:4c:81:96:e1
Associated Clients	0

Local Network	
Router IP Address	192.168.100.1
Subnet Mask	255.255.255.0
DHCP	Server
Auto IP Address Diversion	Enabled
Local MAC Address	00:e0:4c:81:96:e1

Internet Connection	
Connection Type	DHCP
Internet IP Address	192.168.2.101
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
Internet MAC Address	00:e0:4c:81:96:e1

3.4.6 WPS Settings

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. This router supports the configuration setup using PIN configuration method or PBC configuration method through an internal or external registrar.

Wi-Fi Protected Setup

Change the WPS (Wi-Fi Protected Setup) settings for the travel router. This feature lets you automatically synchronize wireless client settings and quickly connect with the travel router.

Disable WPS

WPS Status: Configured UnConfigured

Reset to UnConfigured

Self-PIN Number: 03141748

Push Button Configuration: **Start PBC**

Apply Changes

Reset

Current Key Info:

Authentication	Encryption	Key
WPA2-Mixed PSK	TKIP+AES	123456789

Client PIN Number:

Start PIN

Items	Information
Disable WPS	Click this checkbox to undo WPS.
WPS Status	You cannot manually select the items here. The WPS Status will change from “UnConfigured” to “Configured” after you enable WPS function and setup a wireless security key for this device.
Self-PIN Number	If you use this device as a client, you can use this code when trying to connect this device to other AP by using the PIN method.
Push Button Configuration	Push Button Communication (PBC) method uses a simple action of pushing a button on both the AP and the new STA to reach the function of easy setup WPS connection. You can simply click the Start PBC button in this GUI page or click the WPS button under the case of the router. After click on the button, please run the client’s WPS and push the PBC button within 2 minutes.
Current Key Info	This field displays the current key information you configured.
Client PIN Number	Personal Identification Number (PIN) method. Users have to fill in the PIN code of enrollee device and click the Start PIN button to make communication between the AP and the enrollee device. After click on the button, please run the client’s WPS and push the PIN button within 2 minutes.

*Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

3.5 TCP/IP Settings

3.5.1 LAN Interface Setup

To set up the configuration of LAN interface, private IP of your router LAN port and subnet mask for your LAN segment.

Items	Information
Router IP Address	The IP of your Router LAN port (default 192.168.100.1).
Subnet Mask	Subnet Mask of you LAN (default 255.255.255.0). All devices on the network must have the same subnet mask to communicate on the network.
DHCP	DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses “automatically”.
DHCP Client Range	This field asks you to specify the DHCP Client IP address range (default 100~200). You can also click the “Show Client” button to list those connected DHCP clients. Note: In Router mode, DHCP Server default setting is enabled, however in AP mode, DHCP Server default setting is disabled.
Auto IP Address Diversion	Click the drop list, you may select “Enabled” to divert the IP Address automatically or select “Disabled” to ban it. Besides, click “Enabled” this feature, the system will auto judge whether the WAN and LAN IP is conflict or not. If there are conflicts, the LAN IP and LAN DHCP Range will auto jump to next subnet for avoiding conflicts. Note: The feature supports in Router mode

* Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

Active DHCP Client List

This is the window that pops up after clicking the button. It shows the information of IP address, MAC address and expire time of the DHCP clients that have connected with this device.

Active DHCP Client Table

This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

IP Address	MAC Address	Time Expired(s)
192.168.100.100	00:0e:a6:03:0d:44	860876

3.5.2 WAN Interface Setup (Router mode Display)

This page allows users to configure those parameters for connecting to Internet. You may select the Internet connection type from the drop list besides “WAN Access Type” and configure the parameters for each mode. There are three modes for your selection: Static, DHCP and PPPoE.

WAN Interface Setup

This page is used to configure the parameters for the Internet network which connect to the WAN port of your travel router. Here you may change the access method to a static IP address, DHCP client, or PPPoE client.

WAN Access Type:

Internet IP Address:

Subnet Mask:

Default Gateway:

MTU Size: (1400-1500 bytes)

DNS 1:

DNS 2(Optional):

Clone MAC Address:

[Clone MAC from your Computer]

History MAC Table:

The maximum of the history MAC entry is three. when the table is full, you can't save any MAC unless you delete some mac entries from the MAC table.

MAC Address	Select
000ea6030d44	<input type="checkbox"/>

Items	Information
WAN Access Type	Select the mode to access the WAN as Static, DHCP Client or PPPoE.
Internet IP Address	The IP address that provided by your Internet Service Provider (ISP).
Subnet Mask	The Subnet Mask provided by your Internet Service Provider (ISP).
Default Gateway	The Default Gateway that provided by your Internet Service Provider (ISP).
MTU Size	To Enable the Maximum Transmission Unit of router setup. Any packet over this number will be chopped up into suitable size before sending. Larger number will enhance the transmission performance. Enter the MTU number in the blank to set the limitation.
Clone MAC Address	There are two ways to clone MAC address. One way is directory input MAC address in text box. Maybe you need to save the MAC Address, you can click 'Manual Add' button and add it to "History MAC Table" for easily backup; another is click 'MAC Clone' button, then it will copy the MAC address from

	<p>your network card in the computer.</p> <p>Note: The 'History MAC Table' can save maximum three MAC Addresses.</p>
History MAC Table	<p>To Delete the MAC Address you add before, mark the check box in the select item on the right hand and click the “Delete Selected”. If you want to delete all the MAC Addresses, click “Delete All” to remove all of them.</p>

* Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

1. Static Mode (fixed IP)

The screenshot shows a configuration interface for WAN Access Type set to 'Static IP'. The fields are as follows:

- WAN Access Type:** Static IP (dropdown menu)
- Internet IP Address:** 192.168.1.20
- Subnet Mask:** 255.255.255.0
- Default Gateway:** 192.168.1.3
- MTU Size:** 1500 (1400-1500 bytes)
- DNS 1:** 202.96.128.86
- DNS 2(Optional):** (empty field)
- Clone MAC Address:** Manual Add (button), 000ea6030d44 (text input), Select MAC (dropdown menu)
- Mac Clone:** (button) [Clone MAC from your Computer]

Items	Information
Internet IP Address, Subnet Mask and Default Gateway	Fill in the IP address, Subnet Mask and Default Gateway that provided by your Internet Service Provider (ISP).
MTU Size	<p>To Enable the Maximum Transmission Unit of router setup. Any packet over this number will be chopped up into suitable size before sending. Larger number will enhance the transmission performance.</p> <p>Enter the MTU number in the blank to set the limitation (default 1500 bytes).</p>
DNS 1~2	To specify the Domain Name System (DNS). The DNS server translates domain names into IP addresses. Enter the DNS provided by your ISP in DNS 1 and DNS 2.

2. DHCP (Automatic Configuration)

WAN Access Type: DHCP Client

MTU Size: (1400-1492 bytes)

Attain DNS Automatically
 Set DNS Manually

DNS 1:

DNS 2(Optional):

Clone MAC Address:

[Clone MAC from your Computer]

Items	Information
MTU Size	<p>To Enable the Maximum Transmission Unit of Router setup. Any packet over this number will be chopped up into suitable size before sending. Larger number will enhance the transmission performance.</p> <p>Enter your MTU number in the text-box to set the limitation (default 1492 bytes).</p>
Attain DNS Automatically	<p>If your DNS provide by ISP is dynamic, choose "Attain DNS automatically."</p>
Set DNS Manually	<p>To specify the Domain Name System (DNS). The DNS server translates domain names into IP addresses. Enter the DNS provided by your ISP in DNS 1 and DNS 2.</p>

4. PPPoE (ADSL)

WAN Access Type:

User Name:

Password:

MTU Size: (1360-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2(Optional):

Items	Information
User Name&Password	Fill in the User Name and password that provided by your ISP.
MTU Size	<p>To Enable the Maximum Transmission Unit of router setup. Any packet over this number will be chopped up into suitable size before sending. Larger number will enhance the transmission performance.</p> <p>Enter your MTU number in the text-box to set the limitation (default 1452 bytes).</p>
Attain DNS Automatically	If your DNS provided by ISP is dynamic, choose “Attain DNS automatically.
Set DNS Manually	To specify the Domain Name System (DNS). The DNS server translates domain names into IP addresses. Enter the DNS provided by your ISP in DNS 1 and DNS 2.

3.6 Firewall Settings (Router mode Display)

MAC Filtering

The Wireless Router could filter the outgoing packets for security or management consideration.

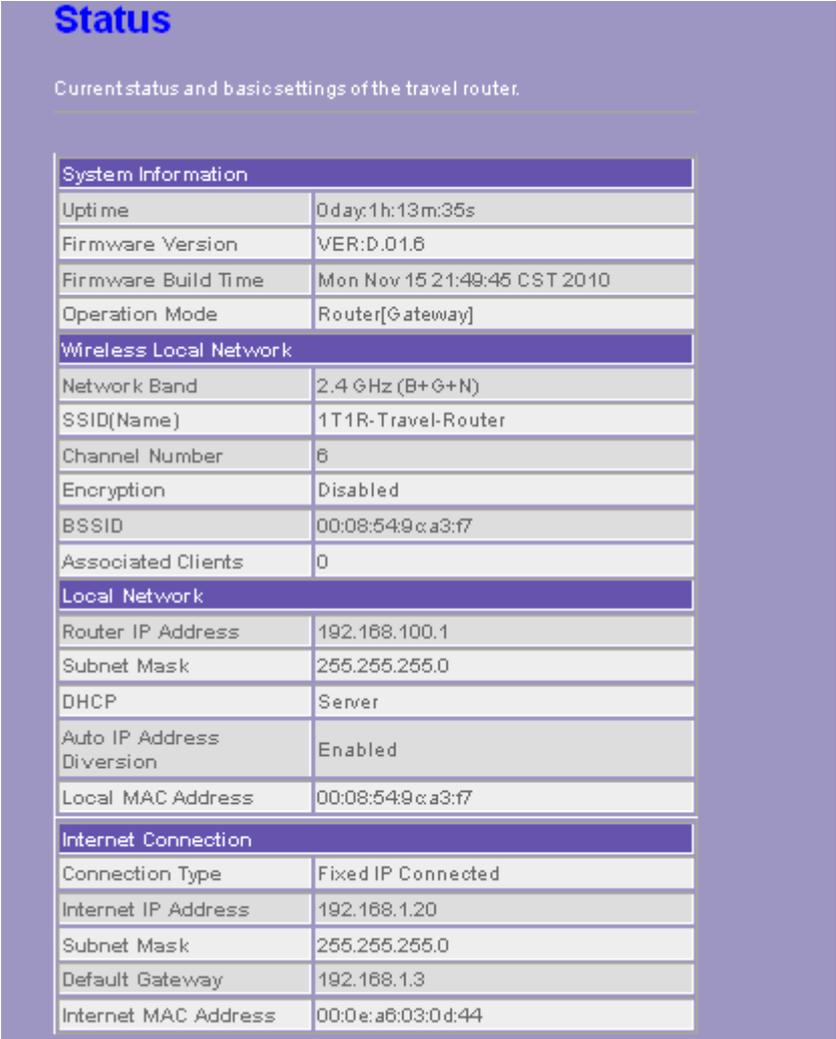
Items	Information
Enable MAC Filtering	Mark to enable the configuration, and clear to disable.
MAC Address	Fill in the MAC address of wireless stations you want to forbid to access the Internet through the Gateway.
Comment	Input any text to describe this mapping.
Current Filter Table	Lists the MAC Filter Settings you have added before. To delete the settings on the list, click the check box in the select item and click the “Delete Selected”. If you want to delete all the MAC addresses, click “Delete All” to remove all of them.

Please click on the **Apply Changes** button or the **Reset** button at the bottom to save/reset the configurations.

3.7 Management

3.7.1 Status

This information page shows the current status and basic settings of this device. You could check if the parameters match your configuration.



Status

Current status and basic settings of the travel router.

System Information	
Uptime	0 day:1h:13m:35s
Firmware Version	VER:D.01.6
Firmware Build Time	Mon Nov 15 21:49:45 CST 2010
Operation Mode	Router[Gateway]

Wireless Local Network	
Network Band	2.4 GHz (B+G+N)
SSID(Name)	1T1R-Travel-Router
Channel Number	6
Encryption	Disabled
BSSID	00:08:54:9c:a3:f7
Associated Clients	0

Local Network	
Router IP Address	192.168.100.1
Subnet Mask	255.255.255.0
DHCP	Server
Auto IP Address Diversion	Enabled
Local MAC Address	00:08:54:9c:a3:f7

Internet Connection	
Connection Type	Fixed IP Connected
Internet IP Address	192.168.1.20
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.3
Internet MAC Address	00:0e:a6:03:0d:44

3.7.2 Statistics

This page shows users the information of data transfer, and monitors the status of this router including receiving and sending packets. To see the latest report, click button.

Statistics

Packet counts for wired and wireless Ethernet connections.

Wireless LAN	<i>Sent Packets</i>	1606
	<i>Received Packets</i>	186203
Ethernet LAN	<i>Sent Packets</i>	57977
	<i>Received Packets</i>	48750
Ethernet WAN	<i>Sent Packets</i>	47981
	<i>Received Packets</i>	90075

Refresh

3.7.3 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.

3. Click the button to activate. You could also click the button to refresh the log information or click the button to clean the log table.

System Log

Set remote log server parameters and view the system log.

Enable Log

system all wireless

3.7.4 Upgrade Firmware

Sometimes a new firmware may be issued to upgrade the system of this device. You could upgrade the firmware you got in this page. To upgrade the firmware, please click the button, locate the firmware in your computer and then click the button to execute.

Upgrade Firmware

Upgrade the travel router firmware.

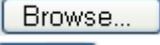
PLEASE NOTE: Do not power off the device during the upgrade process, as this may cause damage to the device.

Firmware Version: VER:D.01.6

Select File:

3.7.5 Save/Reload Setting

The Save/Reload Setting page allows users to save and upload the configuration settings of the device or restore the factory default configuration.

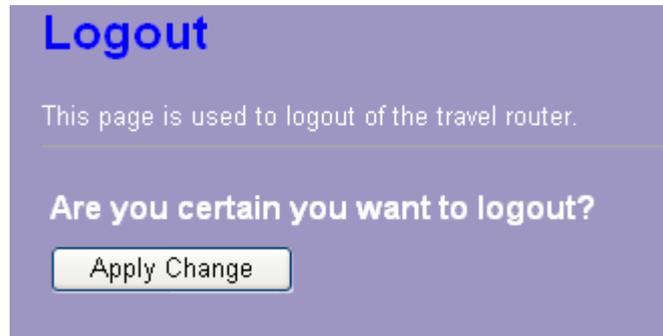
Items	Information
Save Settings to File	Click the  button to save the currently configure settings.
Load Settings from File	Click  to select the file that you save, and then click  to start to update the system configuration settings. Please wait until it is complete.
Reset Settings to Default	Click  to start to load default settings.

3.7.6 Password

To set up the Administrator Account information, enter the Username, New password, and reenter the password on the text box. Don't forget to click the  to save the configuration.

3.7.7 Logout

Click Apply Change then you will save the settings and log off the management interface.



Appendix A: Product Specifications

Standard	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u
Interface	LAN: One 10/100Mbps RJ-45 port WAN: One 10/100Mbps RJ-45 port One WPS/RESET button One slide switch to control AP/Router mode One USB DC JACK
Antenna	Antenna type: Dipole Antenna connector type: Fixed Antenna standard: 1.2dBi
WAN Connection	Ethernet 10/100 Mbps
Cable Connections	RJ-45 (10BASE-T): Category 3,4,5 UTP RJ-45 (100BASE-TX): Category 5 UTP
Transmission Mode	Auto-Negotiation (Full-duplex, Half-duplex)
Security	64/128-bit WEP, WPA-PSK, WPA2-PSK, WPA2-Mixed
Network Data Rate	802.11b: 1,2,5.5, and 11Mbps 802.11g: 6,9,12,18,24,36,48 and 54Mbps 802.11n: up to 150Mbps
Receiver Sensitivity	802.11n Typical -68 dBm 802.11g Typical -73 dBm 802.11b Typical -84 dBm
Transmit Power	16dBm typically @ 802.11b 14dBm typically @ 802.11g 13dBm typically @ 802.11n
LED indications	1*WAN, 1*LAN, 1*WLAN, 1*WPS, 1*PWR
Channel	USA 11, Europe 13, Japan 14
Range Coverage	Indoor 35~100 meters Outdoor 100~300 meters
Temperature	Operating: 0°C ~ 40°C (32°~104°F) Storage: -20°C ~ 70°C (-4°~158°F)
Humidity	Operating: 10% ~ 90% RH, non-condensing Storage: 5%~90% RH, non-condensing
Certification	FCC, CE, VCCI Class B

Appendix B: Glossary

- **802.11b** - The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11g** - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **802.11n** - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- **DHCP (Dynamic Host Configuration Protocol)** - A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server
- **DNS (Domain Name System)** – An Internet Service that translates the names of websites into IP addresses.
- **Domain Name** - A descriptive name for an address or group of addresses on the Internet.
- **DSL (Digital Subscriber Line)** - A technology that allows data to be sent or received over existing traditional phone lines.
- **ISP (Internet Service Provider)** - A company that provides access to the Internet.
- **MTU (Maximum Transmission Unit)** - The size in bytes of the largest packet that can be transmitted.
- **NAT (Network Address Translation)** - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- **PPPoE (Point to Point Protocol over Ethernet)** - PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- **SSID** - A **S**ervice **S**et **I**dentification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- **WEP (Wired Equivalent Privacy)** - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- **Wi-Fi** - A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see <http://www.wi-fi.net>), an industry standards group

promoting interoperability among 802.11b devices.

- **WLAN** (Wireless Local Area Network) - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.



05.04.2011

EC – Declaration of conformity

ALL0235mini Wireless 11N 1T1R Travel Router



This equipment conforms with the requirements of the Council Directive **R&TTE 99/5/EC** on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.

The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device. The ALL0235mini Wireless 11N 1T1R Travel Router conforms to the European Directives 1989/336/EEC.

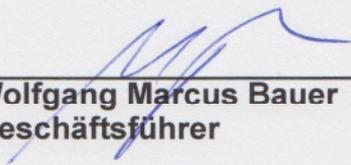
This equipment meets the following conformance standards:

EN 300 328 V1.7.1 (2006-10)	
EN 301 489-1 V1.8.1 (2008-04)	EN 301 489-17 V2.1.1 (2009-05)
EN 55022: 2006+A1: 2007, Class B	
EN 61000-3-2: 2006 Class A	EN 61000-3-3: 2008
IEC 61000-4-2: 2008	EN 61000-4-2: 2009
IEC 61000-4-3: 2006+A1: 2007 +A2: 2010	
EN 61000-4-3: 2006+A1: 2008 +A2: 2010	
IEC 61000-4-4: 2004+A1: 2010	
EN 61000-4-4 2004+A1: 2010	
IEC 61000-4-5: 2005	EN 61000-4-5: 2006
IEC 61000-4-6: 2008	EN 61000-4-6: 2009
IEC 61000-4-11: 2004	EN 61000-4-11: 2004

This equipment is intended to be operated in all countries.

This declaration is made by
ALLNET Computersysteme GmbH
Maistraße 2
82110 Germering Germany

Germering, 05.04.2011



Wolfgang Marcus Bauer
Geschäftsführer

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