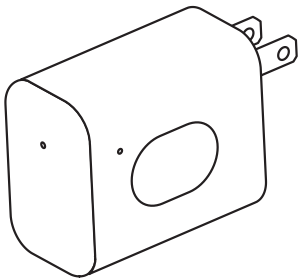# Pocket Wi-Fi Router GA-D5100

User's Manual

Important Safety Information

To prevent fire or shock hazard, do not expose this product to rain and moisture. For example: do not use near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or nearby a swimming pool. To avoid electric shock, do not take apart this product, provided as an accessory. This product should be operated only under power supply. Do not overload wall outlets and extension outlets as this can result in the risk of fire or electric shock.

FCC 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 or more of the following measures:

- Reorient or relocate the receiving antenna

- Increase the separation between the equipment and receiver

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

- Consult the dealer or an experienced radio/TV technician for help

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.

Caution

- To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

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

- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

1. Package Content
- One Pocket Wi-Fi Router
- One User Manual

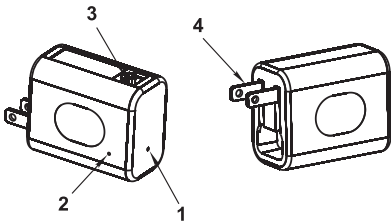# 2. Product Layout
1. LED Description

Indication	Status
Dark	Power OFF
Green Light	Power ON
Flashing	The Ethernet port is sending or receiving packets

2. Reset
2.1 Plug in Mini Router when LED turns green about 15 seconds to finish booting.

2.2 Press reset button and hold around 5 seconds. LED will turn ORANGE when you press reset button.

3. Power Plug
4. Ethernet port

3. Connecting the Router

3.1 Connecting the Mini Router

- Plug in Mini Router, the LED will change color from ORANGE to GREEN for twice.
- It takes around 15 seconds to finish booting.
- Once it's ready, the LED will stay in GREEN.

3.2 Operation Modes

- There are three operation modes for users to configure, AP/Router (Gateway), Bridge and Repeater.
- You can change this in the web interface of Mini Router via browser.
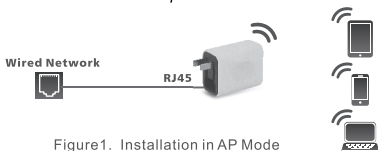
3.2.1 AP/Router (Gateway) Mode
This is the default operation mode


Figure1. Installation in AP Mode
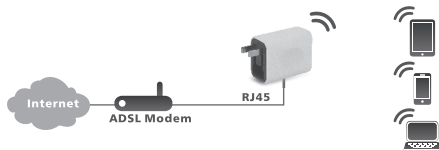
Figure2. Installation in Router Mode

1. Connect the Ethernet port of Mini Router to the LAN port of any router connected to the Internet with an Ethernet cable. When the LED is flashing, there are packets sending or receiving through the Ethernet port of Mini Router.

2. Use a WiFi client to find the SSID (Service Set Identification) of Mini Router, the default SSID is "Mini_routerXXXXXX" . (XXXXXX are the last unique six numbers of each Mini Router's MAC address) The default security mode is disabled. Click "Connect" button to join Min Router's WiFi network.
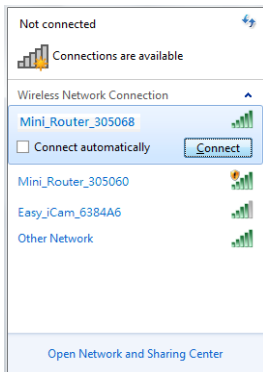
3. In "Setting Wireless Network Connection → (TCP/IP or TCP/IPv4)", select "Obtain and IP address automatically" and "Obtain DNS server automatically" as below:
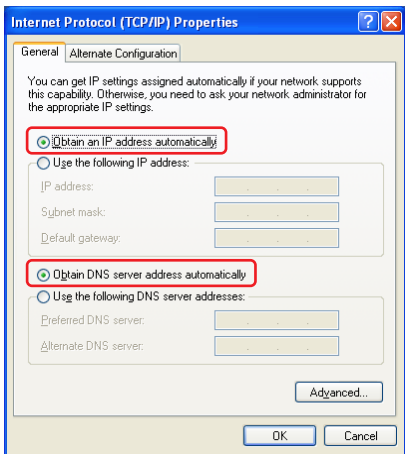
4. Once your Wi-Fi client gets IP address from the Mini Router. Use a web browser to open the web interface. (http://192.168.10.1, the Router's default LAN IP address is 192.168.10.1) System will ask you to enter "User Name" and "Password", The default setting is:

       User Name: **admin**
       Password: **admin**

5. In Mini Router page, there are three languages for user to choose.

6. In Internet Settings, you can set up WAN/LAN/DHCP CLIENTS
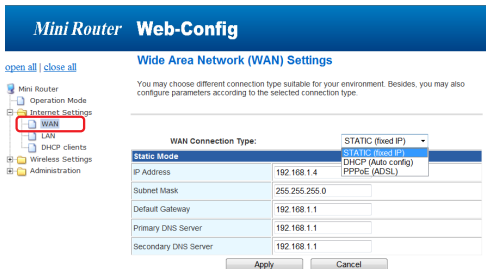
7. In Wireless Settings → Basic, you can change SSID in this page. Enter a new name and click Apply. After about 20 seconds, the page will appear "Not Found" because you have disconnected with Mini Router. Please reconnect to Mini Router with new SSID.

Country Code:
Select your located country from the list.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

8. In Wireless Settings → Security, you can choose a
    security mode for your Mini Router, the default
    encryption is disabled. It's strongly recommended not
    to disable the security mode for security issue.

Mini Router Web-Config

open all | close all

- Mini Router
  - Operation Mode
  - Internet Settings
  - Wireless Settings
    - Basic
    - Security
    - Station List
  - Administration

Wireless Security/Encryption Settings

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Security Policy --	
Security Mode	WPA-PSK/WPA2-PSK ▾

WPA			
WPA Algorithms	○ TKIP	○ AES	● TKIP/AES
Pass Phrase	12345678		

[Apply]   [Cancel]

9. In Administration → Management, you can change administrator account, includes name and password in this page.

- After clicking "Apply" button, the page will be redirected to another page displaying your new typed name and password as below:

Mini Router **Web-Config**

Adminstrator Settings

open all | close all

Mini Router
  Operation Mode
⊞ 📁 Internet Settings
⊞ 📁 Wireless Settings
⊟ 📁 Administration
    📄 Management
    📄 Upload Firmware
    📄 Settings Management
    📄 Status
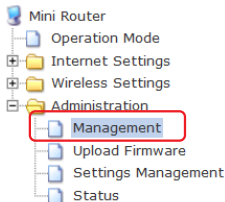
adm user: admin
adm pass: admin

3.2.2 Bridge Mode

SSID: mini router

SSID: 123
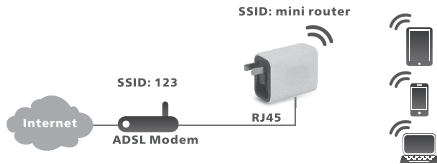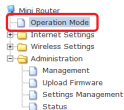
Internet

ADSL Modem

RJ45

Figure3. Installation in Bridge Mode

1. Meanwhile, suppose your Mini Router is in AP/Router (Gateway) Mode.

2. Follow the steps in previous part. Use a web browser to open the web interface. (http://192.168.10.1) Operation mode can be change in the page as below:

Mini Router **Web-Config**

open all | close all

Mini Router
- Operation Mode
- Internet Settings
- Wireless Settings
- Administration
  - Management
  - Upload Firmware
  - Settings Management
  - Status

Operation Mode Configuration

You may configure the operation mode suitable for you environment.

○ **Bridge:**
All ethernet and wireless interfaces are bridged into a single bridge interface.

○ **Gateway:**
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

○ **Repeater:**
The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

[Apply]   [Cancel]

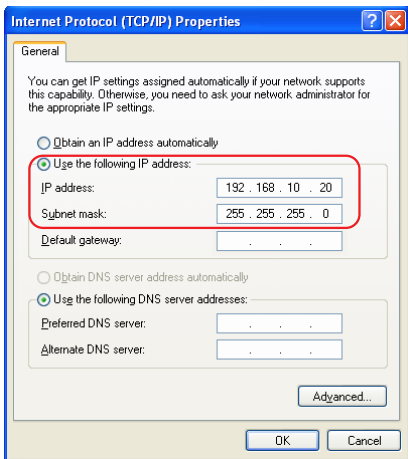3. Click "Apply" then the page will show as below:

Mini Router **Web-Config**

open all | close all

Mini Router
- Operation Mode
- Internet Settings
- Wireless Settings
- Administration

Please do't turn off the power. Now Loading...**100%**

4. After the operation mode changes successfully, you have to re-configure your IP address as below in order to connect to the web interface of Mini Router. The Router's LAN IP address is 192.168.10.1, use the following "IP address" as 192.168.10.X (X could be 2 ~ 254), and "Subnet mask" should be 255.255.255.0. In "Setting Wireless Network Connection (TCP/IP or TCP/IPv4)", configure it as below:

5. If you set IP address in your PC as below, your PC will get IP address from the AP through Mini Router which plays a role of bridge between you and the AP
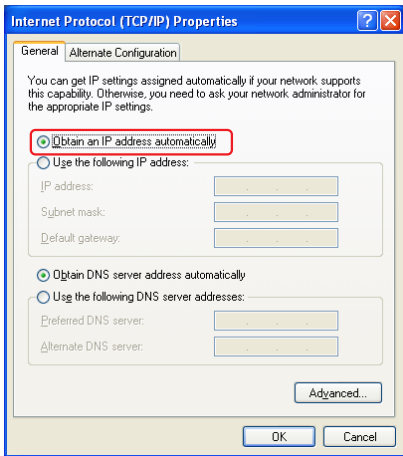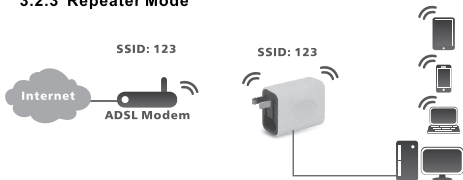
3.2.3 Repeater Mode

Figure4. Installation in Repeater Mode

1. Join the Wi-Fi network of Mini Router.
2. Login the web interface, change operation mode to Repeater in the page as below:

3. Click "Apply" then the page will show as below:

Mini Router **Web-Config**

open all | close all

Mini Router
  Operation Mode
  Wireless Settings
  Administration

Please do't turn the power. Now Loading...**90%**

4. In Mini Router → Wireless Settings → Repeater you can find AP Client on the page as below:

Mini Router **Web-Config**

open all | close all

Mini Router
  Operation Mode
  Repeater
  Wireless Settings
  Administration

**AP Client Feature**

You could configure AP Client parameters here.

Add Profile	
SSID	tranwo_ap
MAC address (Optional)	
Security Mode	WPA2PSK ▾
Encryption Type	TKIP ▾
Pass Phrase	
Apply	Cancel	Scan

Station Site Survey					
Channel	SSID	MAC address	Security	Signal(%)	Wi-Fi Mode
2	ftlink	1c:7e:e5:3b:60:58	NONE	39	11b/g/n
6	tranwo_ap	ec:88:8f:35:e9:5a	WPA1PSKWPA2PSK/TKIPAES	60	11b/g/n
9	T-LINK_23D8ER	ec:88:8f:23:d8:e6	NONE	100	11b/g/n
11	wiwi	84:c9:b2:64:18:16	WPA1PSKWPA2PSK/TKIPAES	24	11b/g/n
11	Mini_Router_305000	00:0c:43:30:50:d0	NONE	24	11b/g/n

1) In the table "Station Site Survey", it shows all the APs nearby
2) Connect to the AP by clicking the SSID in the table
3) Security Mode: Use the same mode set in your AP
4) Encryption Type: Use the same type set in your AP
5) Pass Phrase: Use the same Pass Phrase set in your AP
6) Click Apply. Now your Mini Router's SSID is the same as your AP
7) Connect to Mini Router using the SSID you just set
8) Setting Wireless Network Connection (TCP/IP or TCP/IPv4) Select "Obtain and IP address automatically" and "Obtain DNS server automatically" as below.
9) Click OK.
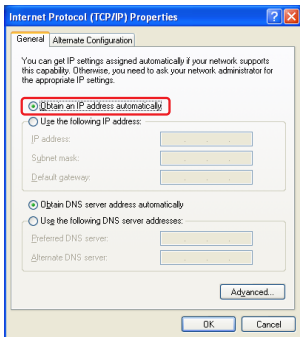
注意事項

依據 低功率電波輻射性電機管理辦法

- 第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.