TP-LINK®
The Reliable Choice

Quick Installation Guide
Portable 3G/4G Wireless N Router
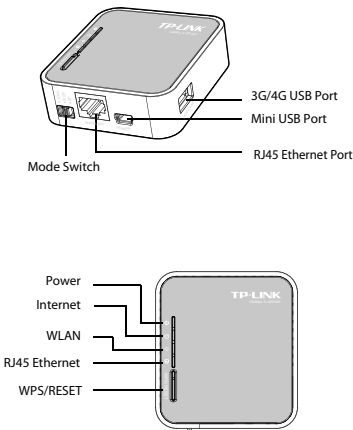
MODEL NO. TL-MR3020

7106503718

Package Contents

TL-MR3020

QIG

Power Adapter

USB Cable

Resource CD

Ethernet Cable
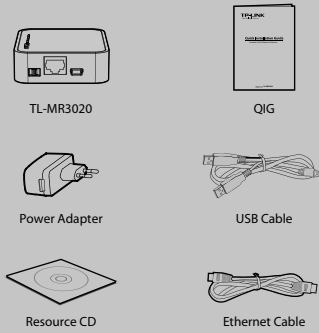
System Requirement

The following operating systems are supported:
- Windows XP
- Windows 98
- Windows Me
- Windows Vista
- Windows 2000
- Mac
- Windows 7
- Windows 2003
- Linux

The following browsers are supported:
- Internet Explorer
- Safari
- FireFox
- Chrome

1 Physical Description

3G/4G USB Port
Mini USB Port
RJ45 Ethernet Port
Mode Switch

Item	Description
3G/4G USB Port	This port is used to plug a 3G/4G modem/card into.
Mini USB Port	This port is used to connect the provided power adapter.
RJ45 Ethernet Port	This port can be LAN or WAN port depending on the working mode.
Mode Switch	This button is used to switch the working mode of the Router.
WPS/RESET	To use WPS function, please push the button for less than 5 seconds, and then the WPS LED will flash; to reset the Router, please push the button for at least 10 seconds.

Power
Internet
WLAN
RJ45 Ethernet
WPS/RESET

| Item	Status	Description
Power	Solid	The Router is on.
	Off	The Router is off.
Internet	Solid	The Router is connected to the Internet, but there is no data being transferred.
	Flashing	The Router is transferring data.
	Off	The Router is not connected to the Internet.
WLAN	Solid	Wi-Fi is enabled.
	Flashing	There is data being transferred through Wi-Fi.
	Off	Wi-Fi is disabled.
RJ45 Ethernet	Solid	The Ethernet port is connected, but there is no data being transferred.
	Flashing	The Ethernet port is transferring data.
	Off	The Ethernet port is not connected.

2 Hardware Connection

3G/4G Router Mode (Default)

In this mode, the TL-MR3020 is connected to a 3G/4G USB modem and wirelessly share the 3G/4G mobile connection to multiple users.
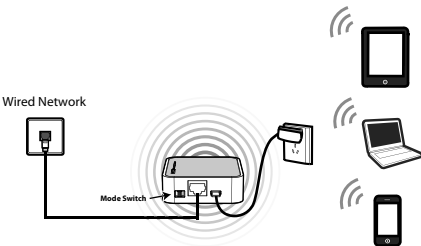
Mode Switch

3G/4G
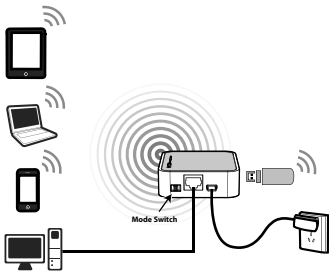
WISP Client Router Mode

In this mode, the TL-MR3020 is wirelessly connected to the WISP (Wireless Internet Service Provider) and share the Internet with multiple users.

SSID: abc

WISP

SSID: 123

Mode Switch
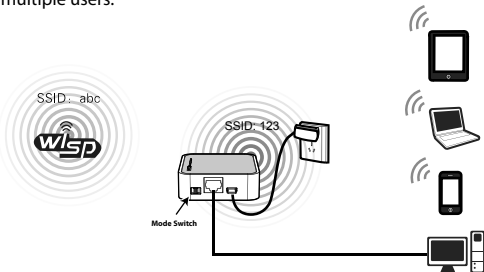
Standard AP Mode

In this mode, the TL-MR3020 is connected to a wired network and transforms the wired Internet access into wireless so that multiple users can share the Internet.

Wired Network

Mode Switch

NOTE: 1. TL-MR3020 can be powered by Power Adapter or laptop/PC through the USB cable.
2. TL-MR3020 will restart automatically after you turn the Mode Switch.

3 Connect to Network

Here we take **Wireless Network Connection** as example, please make sure your device is wirelessly enabled.

For Windows XP

❶ Click the icon at the bottom of your desktop.

❷ Click **Refresh network list,** and then select the SSID (wireless network name) of TL-MR3020. Click **Connect.**
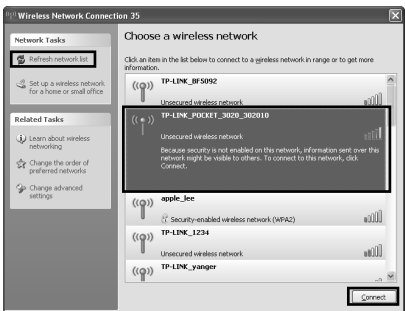
For Windows 7

❶ Click the icon at the bottom of your desktop.

❷ Click refresh button and then select the target network. Click **Connect**.

For MAC OS

❶ Click the icon at the right top of your desktop.

❷ Make sure the status of Airport is On, and then select the SSID (network name) of TL-MR3020 and click it.
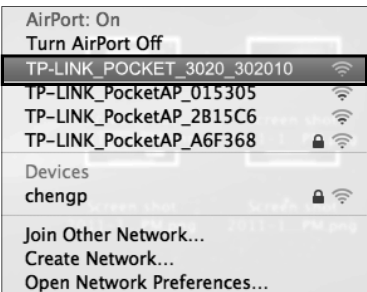
NOTE: 1. The default SSID of the network is **TP-LINK_POCKET_3020_xxxxxx**. (The xxxxxx is the last six characters of the Router's MAC address.)
2. The pre-encryption of TL-MR3020 is written on the product label, please refer to it when you connect to the wireless network.

4 Router Configurations

❶ Open a web browser, type **192.168.0.254** in the address field, and press **Enter**. At the prompt, enter the default **User Name** and **Password**: **admin**. Click **OK** to enter the Router's management page.

❷ After a successful login, please configure the Router according to the working mode you choose.

NOTE: For your convenience, TL-MR3020 will keep the following two items when you switch the working mode:
1. WAN information (Internet information), such as the User name and Password of 3G/4G ISP and PPPoE, the Dynamic IP address setting, etc.
2. Wireless settings, such as SSID (Wireless Network Name), Key Type and Password.

(To be continued)

3G/4G Router Mode

1 Go to **Status** and check the 3G/4G status. When the 3G/4G USB Modem is identified, go to the next step.

```
3G/4G
    3G/4G USB Modem:    Identified
    Signal Strength:    0%
    IP Address:         0.0.0.0
    Subnet Mask:        0.0.0.0
    Default Gateway:    0.0.0.0
    DNS Server:         0.0.0.0 , 0.0.0.0
    Online Time:        0 day(s) 00:00:00
```
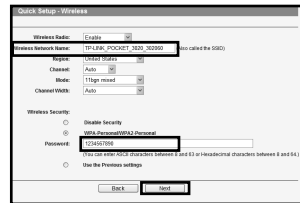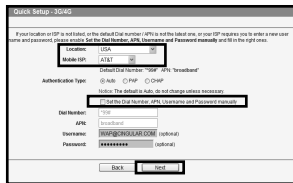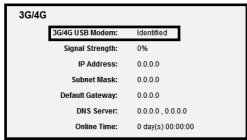
2 Go to **Quick Setup** and click **Next**.

```
Quick Setup
The quick setup will tell you how to configure the basic network parameters.
To continue, please click the Next button.
To exit, please click the Exit  button.
                    Exit         Next
```

3 Choose the Internet Access type, and then click **Next**. Here we recommend **3G/4G Only**.

```
Quick Setup - Internet Access
The router provides some Internet access mode for you to choose.
  ○ 3G/4G Only (Recommended) - Only use 3G/4G as the access to the Internet.  (RJ45 Ethernet Port as LAN)
  ○ 3G/4G Preferred - Use 3G/4G as the primary access, WAN as a backup.  (RJ45 Ethernet Port as WAN)
  ○ WAN Preferred - Use WAN as the primary access, 3G/4G as a backup.  (RJ45 Ethernet Port as WAN)
  ○ WAN Only - Only use WAN as the access to the Internet.  (RJ45 Ethernet Port as WAN)
                    Back         Next
```

4 Select your **Location** and **Mobile ISP**. Then click **Next**.

```
Quick Setup - 3G/4G
If your location on ISP is not listed, or the default Dial number / APN is not the latest one, or your ISP requires you to enter a test-user name and password, please enable Set the Dial Number, APN, Username and Password manually and fill in the right ones.
    Location:    USA              ▼
    Mobile ISP:  AT&T             ▼
    Authentication Type:  ○ Auto  ○ PAP  ○ CHAP
                Notice: The default is Auto, do not change unless necessary.
    ☐ Set the Dial Number, APN, Username and Password manually
    Dial Number:  *99#
    APN:          broadband
    Username:     WAP@CINGULAR.COM  (optional)
    Password:     ●●●●●●●●●         (optional)
                    Back         Next
```
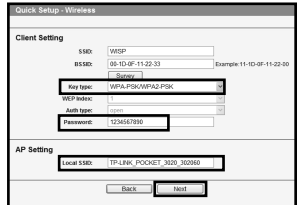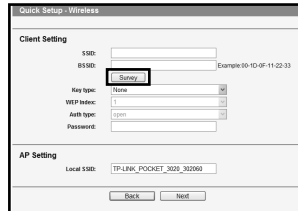
NOTE:
If you can't find your location in the pull-down menu, please tick "**Set the Dial Number, APN, Username and Password manually**" to manually set them according to the information your 3G/4G ISP provides.
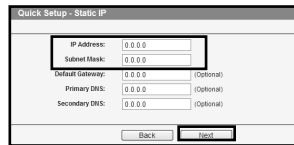
5 Set your wireless parameters. It's recommended that you edit the following two items, and then click **Next**.

```
Quick Setup - Wireless
    Wireless Radio:        Enable        ▼
    Wireless Network Name: TP-LINK_POCKET_3020_302060  (Also called the SSID)
    Region:    United States  ▼
    Channel:   Auto           ▼
    Mode:      11bgn mixed     ▼
    Channel Width:  Auto       ▼
    Wireless Security:
      ○ Disable Security
      ○ WPA-Personal/WPA2-Personal
    Password:     1234567890
                  (You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
      ○ Use the Previous settings
                    Back         Next
```

6 Click **Reboot** to make the settings take effect.

```
Quick Setup - Finish
Congratulations! The Device is now connecting you to the Internet. For detail settings, please click other menus if necessary.
The change of wireless config will not take effect until the Device reboot.
                    Back         Reboot
```

NOTE:
After the rebooting, please reconnect to the network according to **Step 3 Connect to Network**.

WISP Client Router Mode

1 Go to **Quick Setup** and click **Next**.

```
Quick Setup
The quick setup will tell you how to configure the basic network parameters.
To continue, please click the Next button.
To exit, please click the Exit  button.
                    Exit         Next
```

2 Choose your WAN Connection Type and click **Next** to continue. Usually we use **Dynamic IP** as the WAN Connection Type.

```
Quick Setup - WAN Connection Type
The Quick Setup is preparing to set up your connection type of WAN port.
Please choose the Internet connection type your ISP provides.
  ○ PPPoE - For this connection, you will need your account name and password from your ISP.
  ○ Dynamic IP - Your ISP uses a DHCP service to assign your Router an IP address when connecting to the Internet.
  ○ Static IP - This type of connection uses a permanent, fixed (static) IP address that your ISP assigned.
                    Back         Next
```

a) If **PPPoE** is selected, please enter the **User Name** and **Password** given by your WISP. Then click **Next**.

```
Quick Setup - PPPoE
    User Name:        username
    Password:         ●●●●●●●●
    Confirm Password: ●●●●●●●●
                    Back         Next
```

b) If **Dynamic IP** is selected, set the **MAC Clone** page and click **Next**.

```
Quick Setup - MAC Clone
Please read help carefully on the right.
  ○ Yes, I am connected by the main computer (clone MAC address)
  ○ No, I am connected by another computer (do NOT clone MAC address)
    WAN MAC Address:    00-0A-EB-30-20-11    Restore Factory MAC
    Your PC's MAC Address:  40-61-86-cd-38-43  Clone MAC Address
                    Back         Next
```

c) If **Static IP** is selected, please enter the **IP Address** and **Subnet Mask** given by your WISP. Then click **Next**.

```
Quick Setup - Static IP
    IP Address:      0.0.0.0
    Subnet Mask:     0.0.0.0
    Default Gateway: 0.0.0.0    (Optional)
    Primary DNS:     0.0.0.0    (Optional)
    Secondary DNS:   0.0.0.0    (Optional)
                    Back         Next
```

3 Click **Survey** button to find the available wireless networks.

```
Quick Setup - Wireless
Client Setting
    SSID:
    BSSID:                         Example:00-1D-0F-11-22-33
                          Survey
    Key type:   None          ▼
    WEP Index:  1             ▼
    Auth type:  open          ▼
    Password:
AP Setting
    Local SSID:  TP-LINK_POCKET_3020_302060
                    Back         Next
```

4 Select the target wireless network and click **Connect**.

```
AP List
AP Count: 1
ID  BSSID              SSID    Signal  Channel  Security  Choose
1   00-1D-0F-11-22-33  WISP    25dB    4        ON        Connect
                    Back         Refresh
```

5 The SSID and BSSID will be automatically filled into the wireless setting figure. Choose the **Key type** and fill in the **Password** according to the target wireless network.
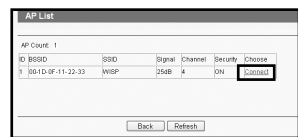Set the Local SSID as your local wireless network name. Then click **Next**.

```
Quick Setup - Wireless
Client Setting
    SSID:       WISP
    BSSID:      00-1D-0F-11-22-33    Example:11-1D-0F-11-22-33
                          Survey
    Key type:   WPA-PSK/WPA2-PSK  ▼
    WEP Index:  1             ▼
    Auth type:  open          ▼
    Password:   1234567890
AP Setting
    Local SSID:  TP-LINK_POCKET_3020_302060
                    Back         Next
```

6 Click the **Reboot** button to make your wireless configuration take effect and finish the Quick Setup. (You're recommended to go to **Wireless > Wireless Security** to set up the wireless security.)

```
Quick Setup - Finish
Congratulations! The Router is now connecting you to the Internet. For detail settings, please click other menus if necessary.
The change of wireless config will not take effect until the Router reboot.
                    Back         Reboot
```

NOTE: After the rebooting, please reconnect to the network according to **Step 3 Connect to Network**.
If Wireless Security is enabled, you need to enter the password you've just set to successfully finish the connecting.

AP mode

There are four types of sub-mode under AP mode: Access Point(AP), Repeater, Bridge and Client. You can directly use its default mode Access Point without any further configuration after pluging the WAN cable into the Ethernet Port.

While, if you want to use the other three modes, please refer to the User Guide included on the resource CD for their detailed configuration.

Troubleshooting

T1. What should I do if I don't know or forget my login password?

(1) Restore the Router's configuration to its factory default settings. With the Router powered on, press and hold the **WPS/RESET** button on the rear panel for 8 to 10 seconds before releasing it.

(2) Use the default user name and password: **admin**, **admin**.

(3) Try to configure your Router once again by following the previous step of this QIG.

T2. What should I do if I cannot log in the web-based management page after I have successfully connected the Router?

You need to configure your PC(s) to "Obtain an IP address automatically" and "Obtain DNS server address automatically".

As for this, please follow the instructions below.

1) For Windows XP:
   Click "**Start -> Control Panel -> Network and Internet Connections -> Network Connections**".
   For Windows 7:
   Click "**Start -> Control Panel ->Network and Internet -> View network status and tasks -> Change adapter settings**".
   For Windows Vista:
   Click "**Start -> Control Panel ->Network and Internet -> View network status and tasks -> Manage network connections**".

2) Right-click "**Local Area Connection**", and then click "**Properties**".

3) Select "**Internet Protocol (TCP/IP)**" in Windows XP/2000 or "**Internet Protocol Version 4 (TCP/IPv4)**" in Windows Vista/7. Then click "**Properties**".

4) Select "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**". Then click "**OK**".

T3. What should I do if I cannot get Internet access with an identified 3G/4G USB modem?

(1) Please insert a suited SIM/UIM card into the 3G/4G USB modem correctly.

(2) Please plug your 3G/4G USB modem directly into your PC and disable the PIN verification via modem utility.

(3) Please verify that your Internet connection is working on your PC.

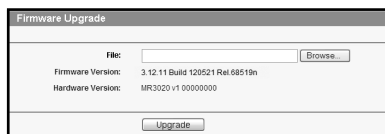(4) Ask your ISP for the latest dial number and APN, correct the pre-set information manually.

T4. What should I do when the "Unknown Modem" message displays?

(1) Please go to our website: **www.tp-link.com**, click the tab "**Support**" and select "**3G/4G USB Modem Compatibility List**". Then please check and make sure that your 3G/4G USB modem is on the compatibility list.

(2) If your 3G/4G USB modem is on our list but the Router shows "Unknown Modem", please go to our website to download the latest firmware or bin file and upgrade the Router.

(3) If the latest firmware or bin file cannot support your modem, please contact our technical support.

T5. How to update the firmware?

(1) We're continuously testing newly emerged 3G/4G modem worldwide to provide the best compatibility between our 3G/4G Router and the 3G/4G USB modems. To enjoy the best user experience, we strongly suggest that you download the latest firmware from our website:
   http://www.tp-link.com/en/support/download/

(2) Choose menu "**System Tools -> Firmware Upgrade**", and then you can update the latest version of firmware for the Router on the following screen.

```
Firmware Upgrade
    File:                                          Browse...
    Firmware Version:  3.12.11 Build 120521 Rel.58519n
    Hardware Version:  MR3020 v1 00000000
                          Upgrade
```