

# MK600 User Manual

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FCC ID:2AWTP-MK600

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.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

The distance between user and products should be no less than 20cm

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# Chapter 1: Introduction

## Product Overview

Mk600 is a Wi Fi wireless indoor CPE designed for home company applications. It conforms to IEEE 802.11b/g/n standard and has the characteristics of high transmission rate and high receiving sensitivity. The shell adopts environmental protection integrated molding design, which not only can prevent dust, but also can fully adapt to various working environments.

### Front Panel





**Power LED:** The Power LED lights up when the Router is powered on.

**SYS LED:** The SYS LED lights up when the system is run. It flashes when system run OK.

**WLAN LED:** The Wireless LED lights up when the wireless feature is enabled. It flashes when the Router sends or receives data over the wireless network.

**LAN (1~4):** These LEDs are corresponding with the LAN ports on the rear panel. The LED is continuously lit when the Router is connected to a device through that port. It flashes to indicate network activity over that port.

**Signal LED:** The 4G Signal LED lights up when the 4G Signal OK. 4G signal indicator indicates 4G signal strength.

It is red when the signal is weak, purple when the signal is medium, and blue when the signal is strong

**4G LED:** The 4G LED lights up when 4G is online. Flashing when 4G dialing.

When the Router goes through its self-diagnostic mode during every boot-up, the LED flashes.

When the diagnostic is complete, the LED is continuously lit.

LED	Status	Description
POWER	On	Power is on
	Off	Power is off
SYS	Blinking	System is ok
WLAN	On	The wireless function is enabled

	Off	The wireless function is disabled
	Blinking	Sending or receiving data over wireless network
LAN (Port 1-4)	On	LAN port is connected
	Off	LAN port is unconnected
	Blinking	Data is transmitting
Signal LED	Red	Signal is weak
	Purple	Signal is medium
	Blue	Signal is strong
4G LED	Blinking	4G is dialing
	ON	4G is online

## Main Features

1. 2.4GHz 1T1R 300mbps technology is adopted to meet multi-user connection application;
2. Minipcie interface and SIM card slot are provided to support the expansion of built-in 3G / 4G applications;
3. Support 4 100m LAN or 1 WAN network port to meet the application requirements of different customers;
4. Provide system led, Wi-Fi led, Ethernet led, 4G signal status and network status LED indication;
5. Network online Ping packet detection and user defined address detection;

# Chapter 2 Quick use guide Installation

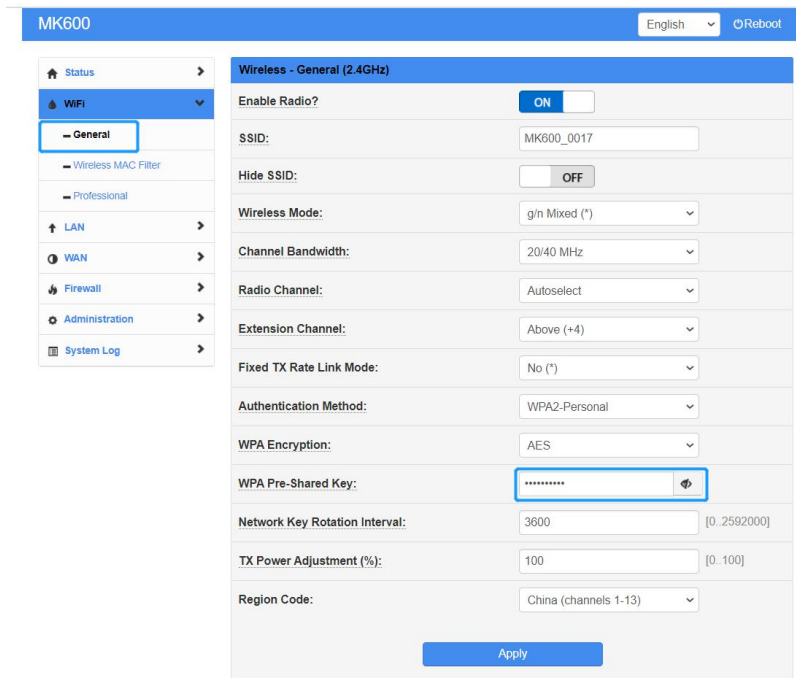
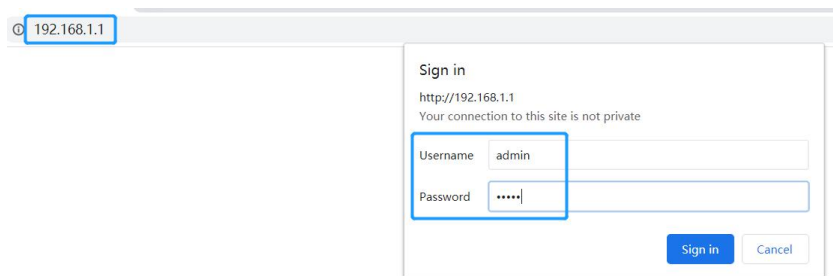
## First step:

You can change your Wi-Fi password by accessing the browser 192.168.1.1 via mobile phone or computer. The default Wi-Fi password is 12345678, You have to change it to keep your network safe.

The way to change the password is to access 192.168.1.1 with a computer or mobile phone browser ,then change the Wi-Fi password and remember it。

Username: admin

Passdord: admin



## Second step:

Insert sim card and Power on it again



### Three setp:

when the 4G online LED on, You can use your computer and mobile phone to access the Internet with your new WI-FI passwords

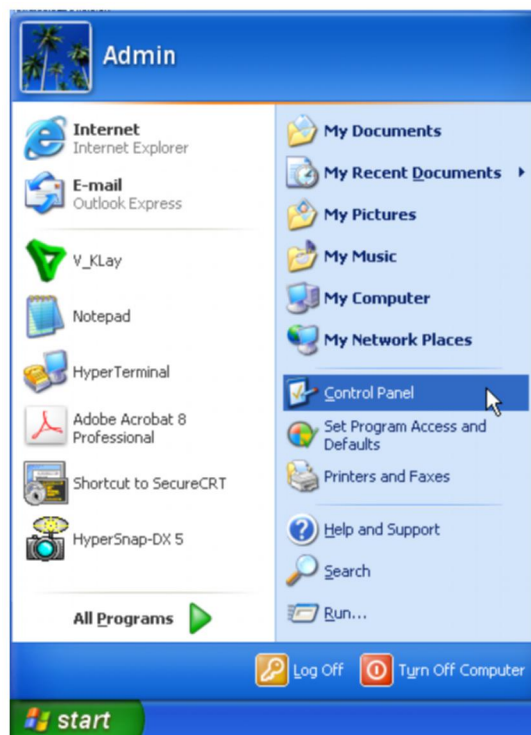
# Chapter 3 Detailed setting description

## Configure the Computer's IP Address

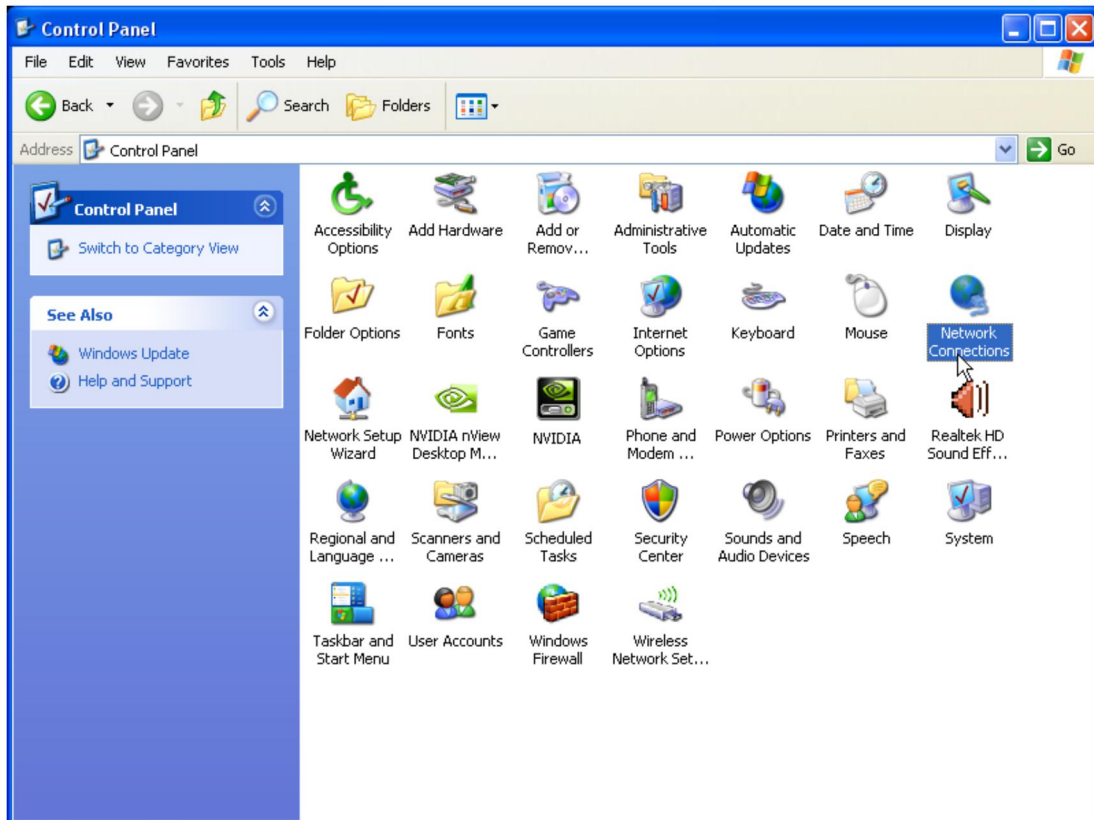
After connecting your PC to the router, you need to configure your PC's IP address use auto.

For Windows XP/2000

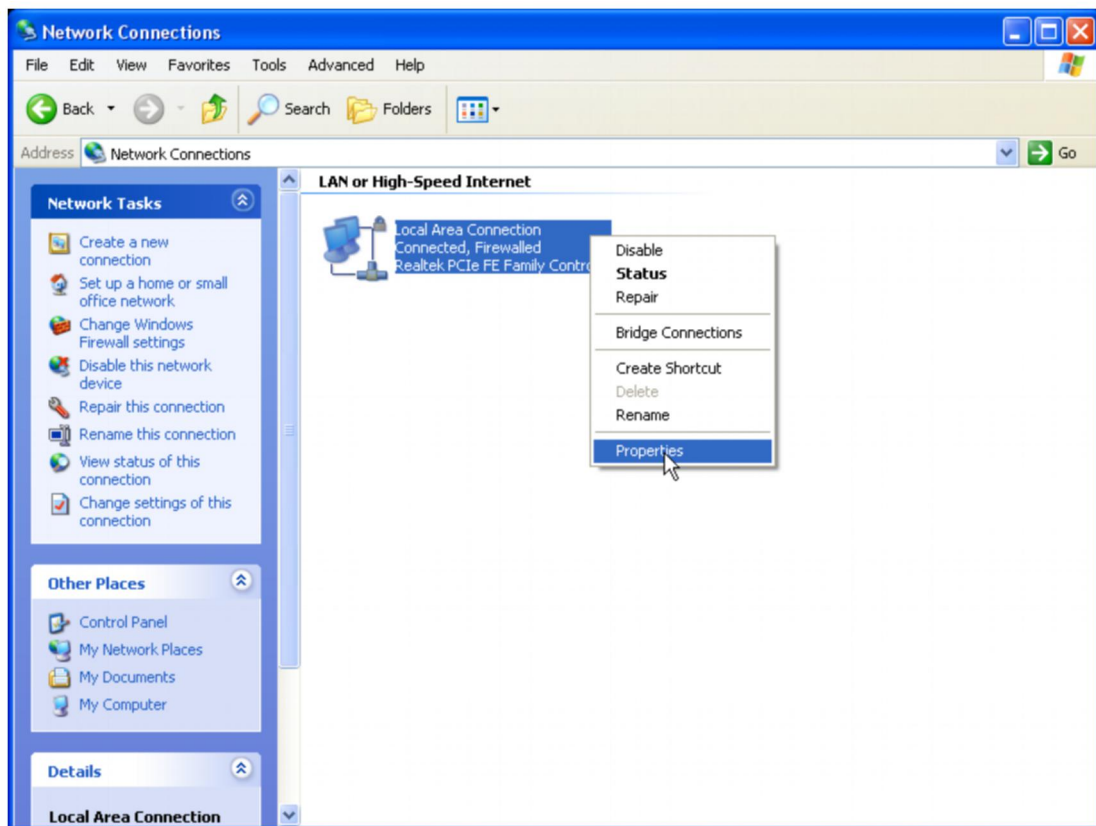
1) Click **Start > Control Panel**.



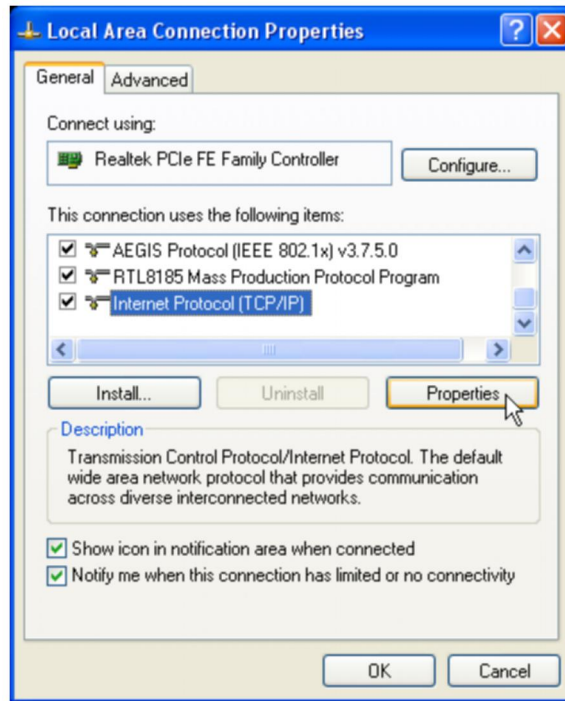
2) Select and double click **Network Connections**.



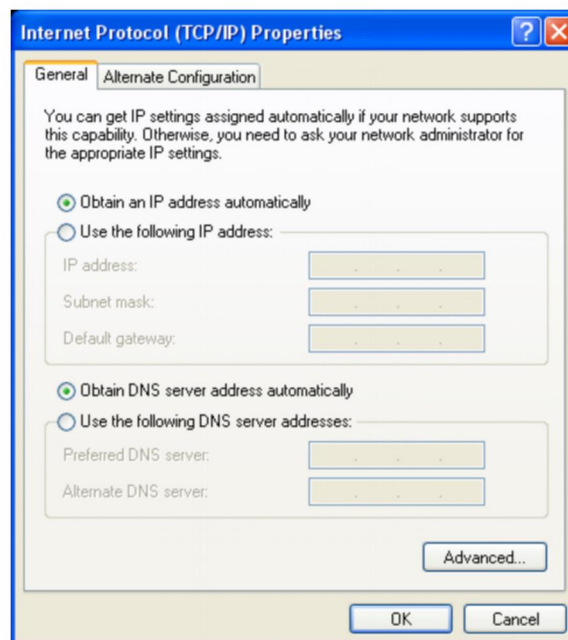
3) Right click **Local Area Connection** and then select **Properties**.



4) Select **Internet Protocol (TCP/IP)** and click **Properties**.

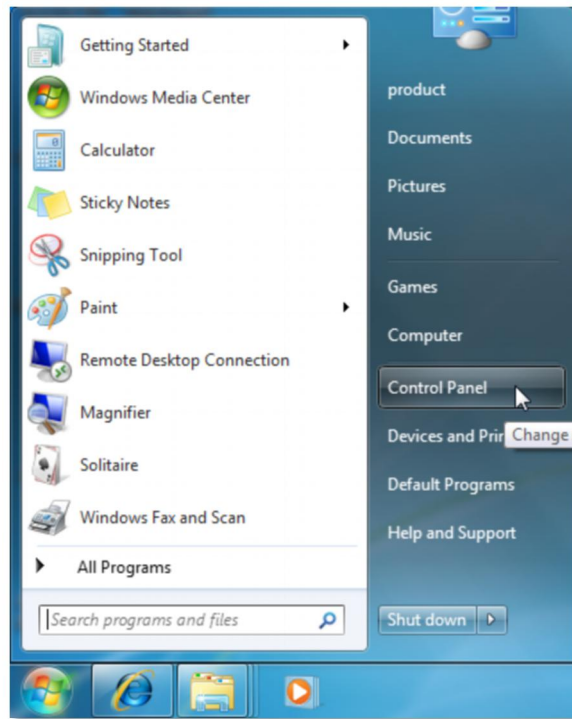


- 5) Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Then click **OK**.

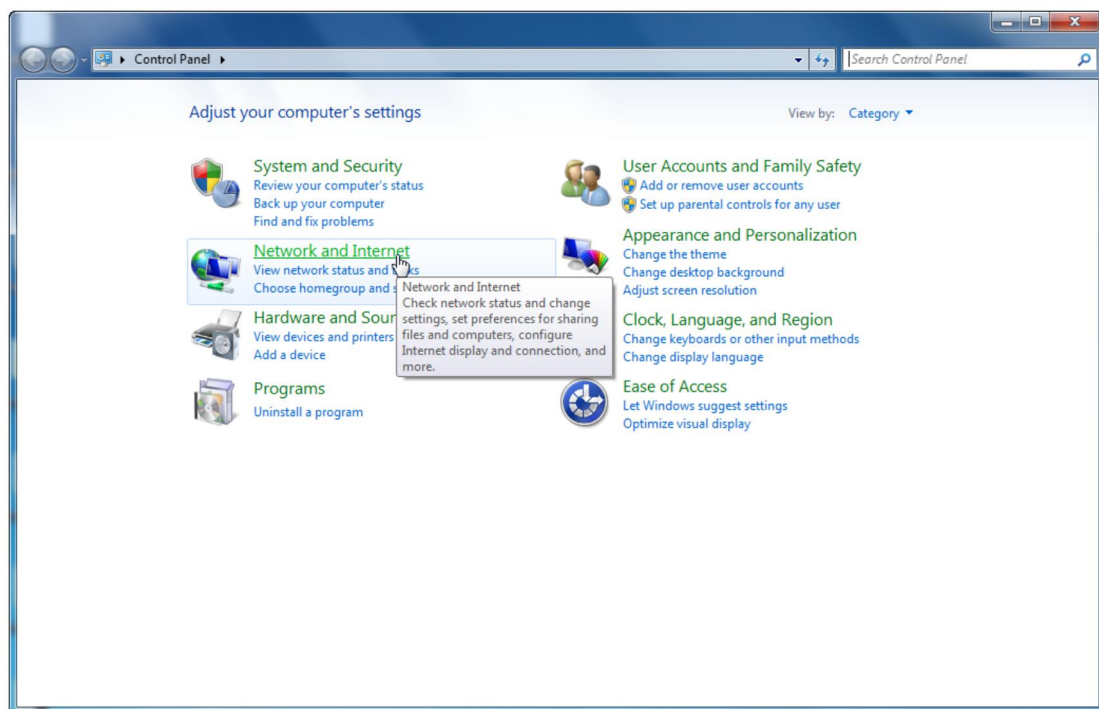


For Windows Vista/7

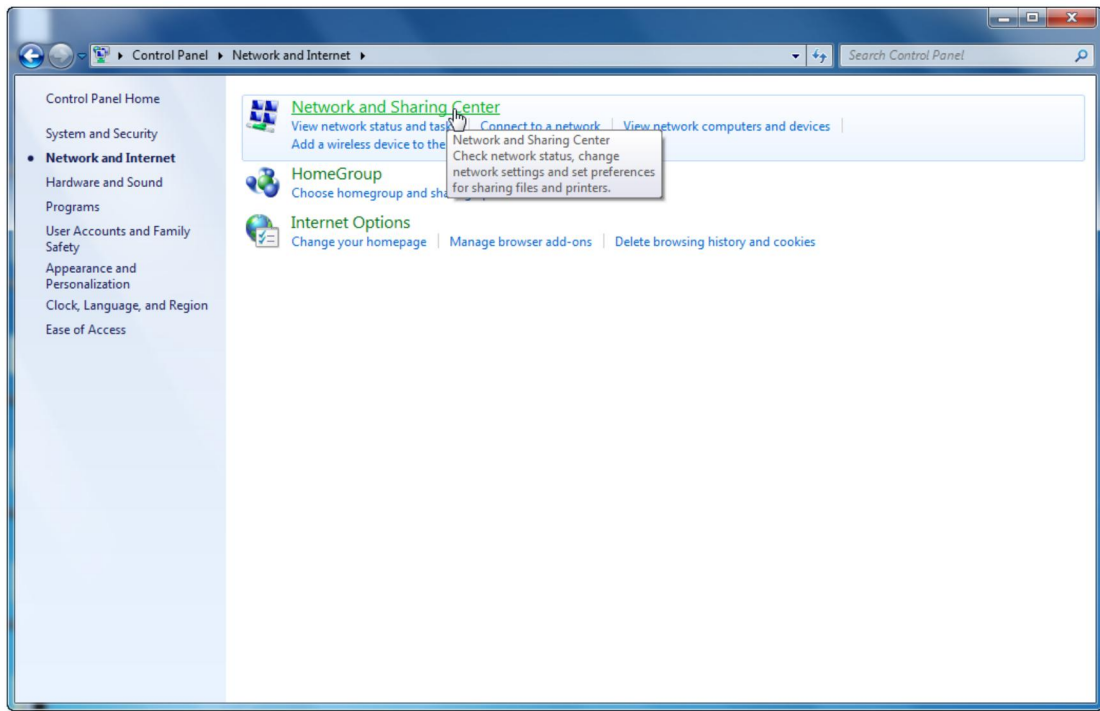
- 1) Click **Start>Control Panel**.



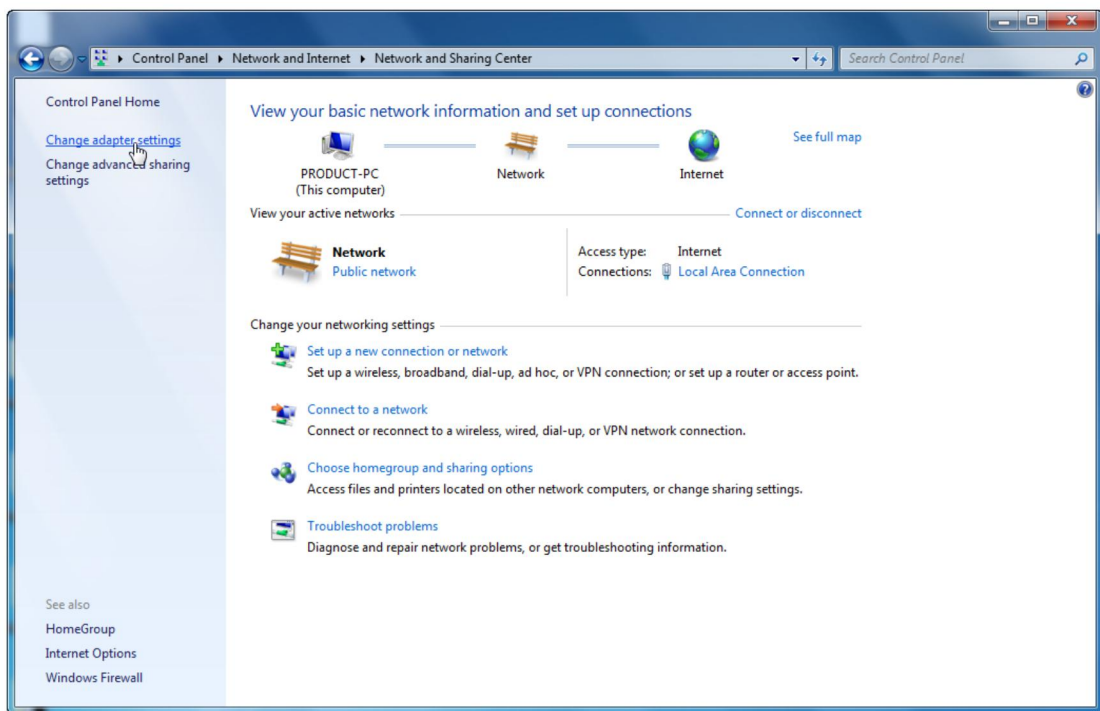
2) Click **Network and Internet**.



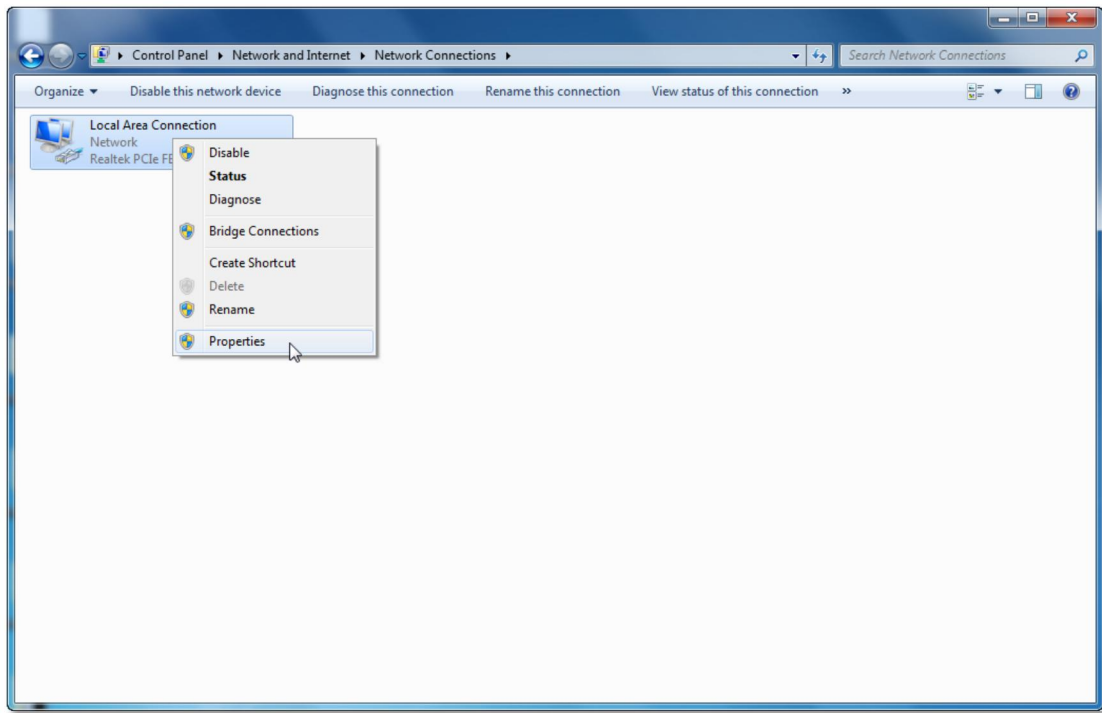
3) Click **Network and Sharing Center**.



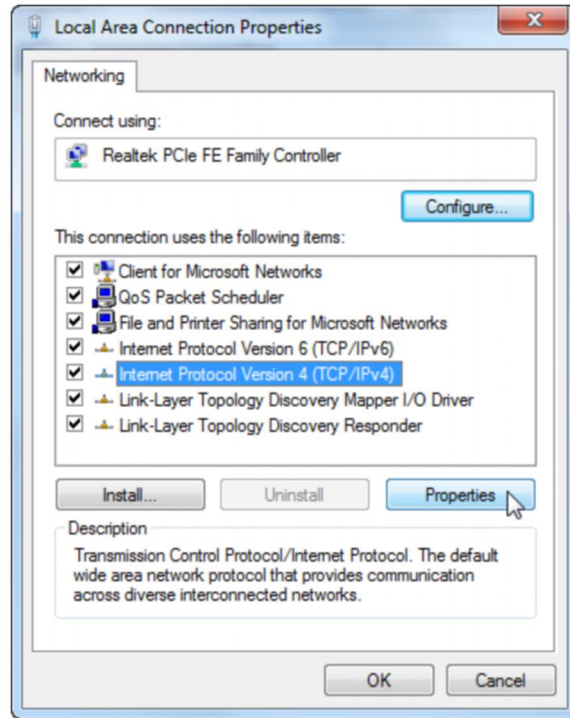
4) Go to **Change Adapter Settings (win7)/Manage Network Connections (Vista)**.



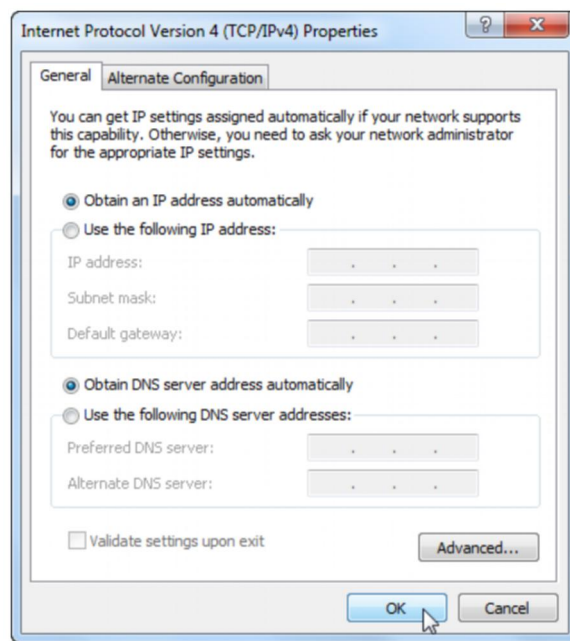
5) Right click **Local Area Connection**, choose **Properties**.



6) Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



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



## Router status view

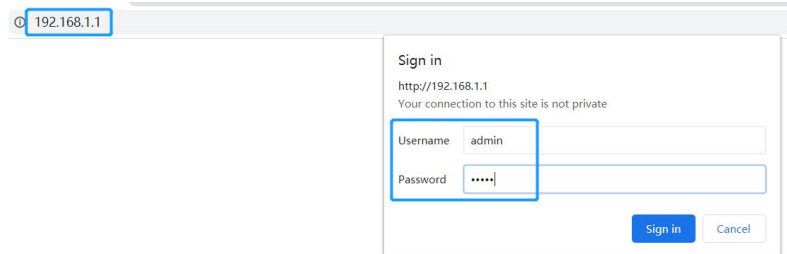
After successful installation, you can go ahead with connecting to the internet, the operations are as follow:

1) Open your web browser, in the address bar, type in 192.168.1.1

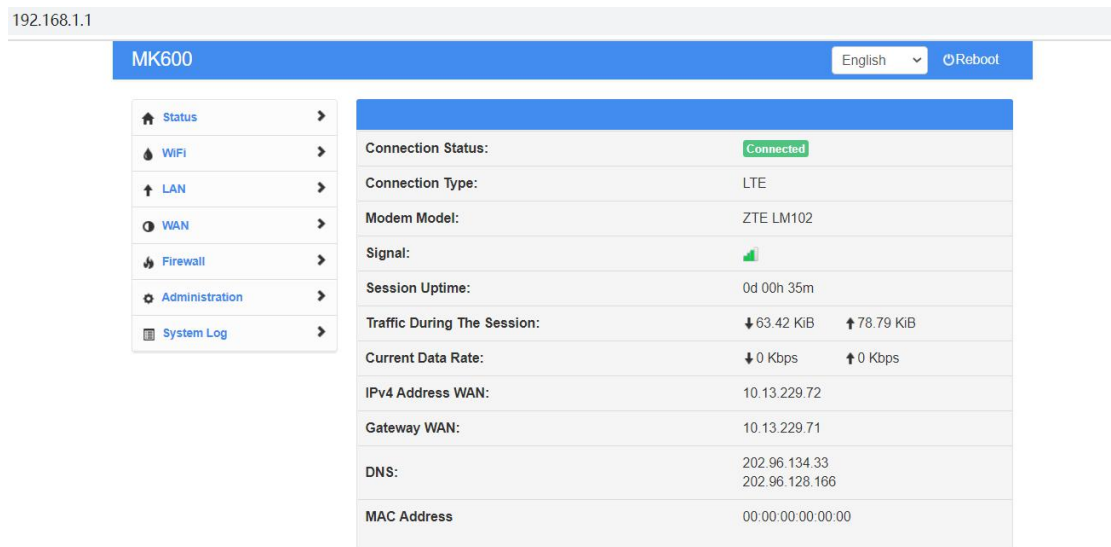




2) You are prompted to enter the Username/Password (preset as admin/admin) which you can find on the label at the bottom of your router, and then click **Login**.



3) After successful login, you can see the web management page of the router comes up,



Home Status

- Clients
- LTE
- WiFi
- LAN
- WAN
- Firewall
- Administration
- System Log

### Client List

Type	Name	LAN IP	MAC Address	Block
	LAPTOP-6IH5GVK3	192.168.1.13	000EC6557E2F	<input checked="" type="checkbox"/>

### Blocked Client List

Type	Name	LAN IP	MAC Address	Unblock
No Data				

Apply Refresh

Home Status

- Clients
- LTE
- WiFi
- LAN
- WAN
- Firewall
- Administration
- System Log

2.4GHz

Enable Radio?

Wireless Name (SSID)

Hide SSID:  OFF

Authentication Method:

WPA Encryption:

WPA-PSK Key:

LAN IP 192.168.1.1

MAC Address C0:5E:79:FB:00:17

# Change Wi-Fi password

MK600 English Reboot

- Status
- WiFi
  - General**
  - Wireless MAC Filter
  - Professional
- LAN
- WAN
- Firewall
- Administration
- System Log

### Wireless - General (2.4GHz)

Enable Radio?  ON

SSID:

Hide SSID:  OFF

Wireless Mode:

Channel Bandwidth:

Radio Channel:

Extension Channel:

Fixed TX Rate Link Mode:

Authentication Method:

WPA Encryption:

WPA Pre-Shared Key:

Network Key Rotation Interval:  [0..2592000]

TX Power Adjustment (%):  [0..100]

Region Code:

# Modify LAN Setting

MK600 English Reboot

- Status
- WiFi
- LAN
  - LAN IP**
  - DHCP Server
  - Route
- WAN
- Firewall
- Administration
- System Log

### LAN - LAN IP

Configure the LAN IP of MK600. The DHCP Server dynamically changes the IP pool when you change the LAN IP.

IP Address:  192.168.1.1

Subnet Mask:  255.255.255.0

Enable Spanning Tree Protocol (STP)?  ON

- Status ➤
- WiFi ➤
- LAN ⌵
  - LAN IP
  - DHCP Server**
  - Route
- WAN ➤
- Firewall ➤
- Administration ➤
- System Log ➤

### LAN - DHCP Server

MK600 supports up to 253 IP Addresses for your local network. The IP Address of a local machine can be assigned manually by the network administrator or obtained automatically from MK600 if the DHCP Server is enabled.

Enable DHCP Server?  ON

Domain Name:

IP Pool Starting Address:

IP Pool Ending Address:

DHCP Lease Time (sec):  [120..604800]

Default Gateway:

Manually Assigned IP around the DHCP List

Enable Manual Assignment?  OFF

- Status ➤
- WiFi ➤
- LAN ⌵
  - LAN IP
  - DHCP Server
  - Route**
- WAN ➤
- Firewall ➤
- Administration ➤
- System Log ➤

### LAN - Route

This function allows you to add routing rules into MK600. It is useful if you connect several routers behind MK600 to share the same connection to the Internet.

Route

Use DHCP Routes?  ON

Enable Static Routes?  OFF

# Modify WAN Setting

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN**
  - Modem**
  - Port Forwarding
  - DMZ
  - DDNS
- Firewall
- Administration
- System Log

### WAN - Modem

USB Modem Base Settings

Connect Type:

PIN Code:

Internet Check

Enable Internet Check  ON

Check Type:

Interval:  [3..600]

Address 1:

Address 2:

Address 3:

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN**
  - Modem
  - Port Forwarding**
  - DMZ
  - DDNS
- Firewall
- Administration
- System Log

### WAN - Port Forwarding

Port forwarding allows remote computers to connect to a specific computer or service within a private local area network (LAN). For a faster connection, some P2P applications (such as BitTorrent), may also require that you set the port forwarding setting. Please refer to the P2P application's user manual for details.

Auto Port Forwarding (UPnP)

Enable IGD UPnP?  ON

Support Protocols:

Restrict forwarding rules only to their IP?

Allow External Port Range:  -  [1..65535]

Allow Internal Port Range:  -  [1..65535]

Autoclean Rules Interval (sec):  [0..86400]

Minimal Rules Before Autoclean:  [1..999]

Manual Port Forwarding

Enable Manual Port Forwarding?  OFF

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN**
  - Modem
  - Port Forwarding
  - DMZ**
  - DDNS
- Firewall
- Administration
- System Log

### WAN - DMZ

Virtual DMZ allows you to expose one computer to the Internet, so that all the inbounds packets will be redirected to the computer you set. It is useful while you run some applications that use uncerntained incoming ports. Please use it carefully.

IP Address of Exposed Station:

#### Special Applications

Some applications require special handler against NAT. These special handlers are disabled in default.

Starcraft (Battle.Net):  OFF

**Apply**

MK600 English Reboot

- Status
- WiFi**
- LAN
- WAN
  - Modem
  - Port Forwarding
  - DMZ
  - DDNS**
- Firewall
- Administration
- System Log

### WAN - DDNS

Dynamic DNS (DDNS) allows you to assign an Internet domain name to a computer with a dynamic IP Address. Currently, several DDNS services are embedded in MK600.

Enable the DDNS Client?  OFF

**Apply**

## Modify Firewall Setting

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN
  - Modem
  - Port Forwarding
  - DMZ
  - DDNS
  - Firewall**
    - General**
    - Netfilter
    - URL Filter
- Administration
- System Log

### Firewall - General

Enabling Firewall (SPI Firewall) provides basic protection for MK600 and devices behind it. If you want to filter out specified packets, please use WAN vs. LAN filter.

**Firewall**

Enable Firewall?  ON

Enable DoS Attacks Protection?  OFF

Prevent SYN Flood Attack?  OFF

Logged Packets Type:

Respond Ping Request from WAN?  OFF

#### Access to Router Services from WAN

Enable Web Access from WAN?  OFF

Access SSH Server from WAN?  OFF

Access to UDP-HTTP Proxy (udpxy) from WAN?  OFF

**Apply**

MK600 English ▼ Reboot

- 🏠 Status >
- 📶 WiFi >
- ↑ LAN >
- 🌐 WAN >
- 🔥 Firewall ▼
  - General
  - Netfilter
  - URL Filter
- ⚙️ Administration >
- 📄 System Log >

### Firewall - Netfilter

Main Linux Netfilter framework configuration.

**Netfilter Settings**

Enable NAT?  ON

Maximum Connections: 16384 (HW\_NAT FoE Max) 220 in use

NAT Type (UDP only): Classical Linux Hybrid NAT ▼

NAT loopback?  ON

Enable PPPoE Relay from LAN?  OFF

**Application-Level Gateway (ALG)**

FTP ALG (ports) 21 ,

PPTP ALG  OFF

RTSP ALG  OFF

H.323 ALG  OFF

SIP ALG  OFF

Apply

MK600 English ▼ Reboot

- 🏠 Status >
- 📶 WiFi >
- ↑ LAN >
- 🌐 WAN >
- 🔥 Firewall ▼
  - General
  - Netfilter
  - URL Filter
- ⚙️ Administration >
- 📄 System Log >

### Firewall - URL Filter

Key in the keywords for the sites that you want to block. For example, enter "XXX" in the list The URL filter will block the http://www.abcXXX.com, http://www.XXXbbb.com and so on. Note: Compressed and HTTPS webpages cannot be filtered.

Enable URL Filter?  ON

**URL Filter**

Date to Enable URL Filter:  Mo  Tu  We  Th  Fr  Sa  Su

Time of Day to Enable URL Filter: 00 : 00 - 23 : 59

MAC Address of Filtered Host:  ▼  Exclude

URL Filter List:  +

-

Apply

## Modify Administrator Setting

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN
- Firewall
- Administration**
  - System**
  - Services
  - Firmware Upgrade
  - Settings
- System Log

### Administration - System

Base administration control.

#### System Identification

Device Name:

Administrator Login:

New Password:

Retype New Password:

#### System Time

Time Zone:

NTP Synchronization Period:

NTP Server 1:  Find NTP

NTP Server 2:

#### Miscellaneous

Remote Log Server:  :

Enable Syslog Floating Toolbar?

Enable Context Help?  ON

MK600 English Reboot

- Status
- WiFi
- LAN
- WAN
- Firewall
- Administration**
  - System
  - Services**
  - Firmware Upgrade
  - Settings
- System Log

### Administration - Services

Control of various system services.

#### HTTP Web Server

Port of Web Access from LAN:  [80..65535]

Restricting Web Access from LAN:

#### Terminal Services

Enable Telnet Server?  OFF

Enable SSH Server?



MK600 English

- >
- >
- >
- >
- >
- - 
  - 
  - 
  - >

### Administration - Firmware Upgrade

Product ID:

Firmware Version:

New Firmware File:  No file chosen

**Note:**

1. For a configuration parameter existing both in the old and new firmware, its setting will be kept during the upgrade process.
2. In case the upgrade process fails, router enters the emergency mode automatically.

MK600 English

- >
- >
- >
- >
- >
- - 
  - 
  - 
  - >

### Administration - Settings

This function allows you to save current router settings to a file or load settings from a file.

**Router Settings (NVRAM)**

Factory Default:

Save Setting to a File:

Restore Settings from a File:  No file chosen

NVRAM to Flash Memory Committing Mode:

Commit NVRAM Content to Flash Memory Now:

View System LOG file

- Status ➤
- WiFi ➤
- LAN ➤
- WAN ➤
- Firewall ➤
- Administration ➤
- System Log ⌵
  - General Log

### System Log - General Log

System Time: Tue, Oct 27 19:34:55 2020 GMT+0800

```
Oct 27 19:33:55 dial4g: signal=59!  
Oct 27 19:33:55 dial4g: cereg=1!  
Oct 27 19:34:05 dial4g: sim ready  
Oct 27 19:34:05 dial4g: signal=60!  
Oct 27 19:34:05 dial4g: cereg=1!  
Oct 27 19:34:15 dial4g: sim ready  
Oct 27 19:34:15 dial4g: signal=60!  
Oct 27 19:34:15 dial4g: cereg=1!  
Oct 27 19:34:25 dial4g: sim ready  
Oct 27 19:34:25 dial4g: signal=60!  
Oct 27 19:34:25 dial4g: cereg=1!  
Oct 27 19:34:35 dial4g: sim ready  
Oct 27 19:34:35 dial4g: signal=60!  
Oct 27 19:34:35 dial4g: cereg=1!  
Oct 27 19:34:45 dial4g: sim ready  
Oct 27 19:34:45 dial4g: signal=60!  
Oct 27 19:34:45 dial4g: cereg=1!
```

Clear

Save

Refresh