

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

CONTENTS

Chapter 1: Introduction.....	1
Product Overview.....	1
Main Features.....	3
Chapter 2 Quick use guide Installation.....	4
First step:	4
Second step:	4
Three setp:	5
Chapter 3 Detailed setting description.....	6
Configure the Computer's IP Address.....	6
Router status view.....	12
Change Wi-Fi password.....	15
Modify LAN Setting.....	15
Modify WAN Setting.....	17
Modify Firewall Setting.....	18
Modify Administrator Setting.....	19
View System LOG file.....	21

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

The image shows two screenshots of the MK600 web interface. The top screenshot is the login page, accessed via the browser address bar showing 192.168.1.1. It features a 'Sign in' dialog box with the URL http://192.168.1.1 and a warning that the connection is not private. The login fields are 'Username' (admin) and 'Password' (masked with dots). There are 'Sign in' and 'Cancel' buttons. The bottom screenshot is the 'Wireless - General (2.4GHz)' settings page. The left sidebar shows navigation options: Status, WiFi (selected), General (selected), Wireless MAC Filter, Professional, LAN, WAN, Firewall, Administration, and System Log. The main content area contains various settings for the wireless network, including 'Enable Radio?' (ON), 'SSID' (MK600_0017), 'Hide SSID' (OFF), 'Wireless Mode' (g/n Mixed (*)), 'Channel Bandwidth' (20/40 MHz), 'Radio Channel' (Autoselect), 'Extension Channel' (Above (+4)), 'Fixed TX Rate Link Mode' (No (*)), 'Authentication Method' (WPA2-Personal), 'WPA Encryption' (AES), 'WPA Pre-Shared Key' (masked with dots), 'Network Key Rotation Interval' (3600), 'TX Power Adjustment (%)' (100), and 'Region Code' (China (channels 1-13)). An 'Apply' button is at the bottom.

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

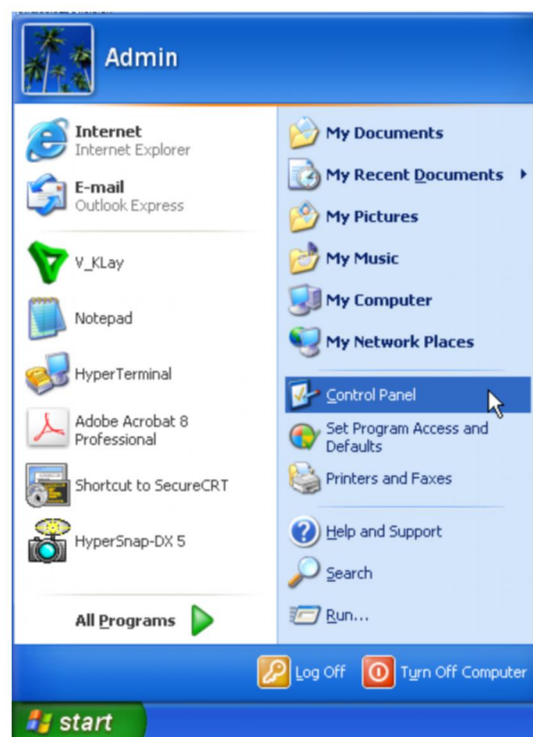
Chapter 3 Detailed setting description

Configure the Computer's IP Address

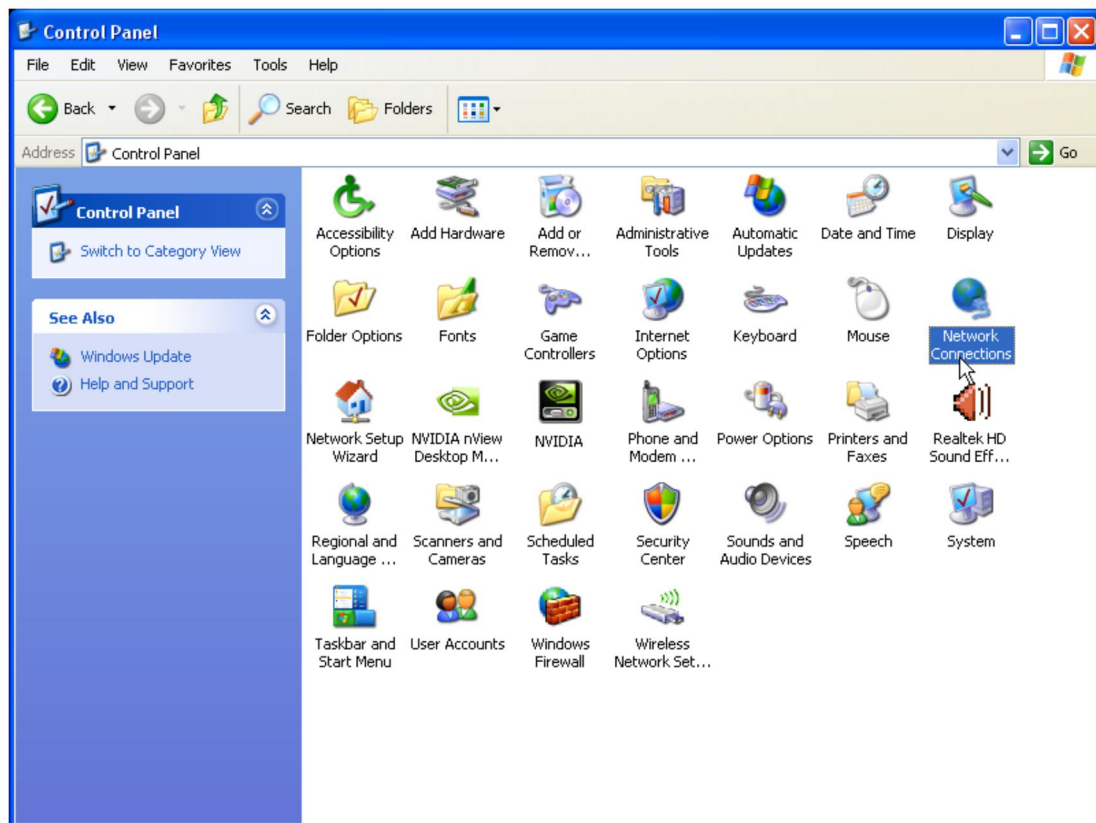
After connecting your PC to the router, you need to configure your PC's IP address use auto.

For Windows XP/2000

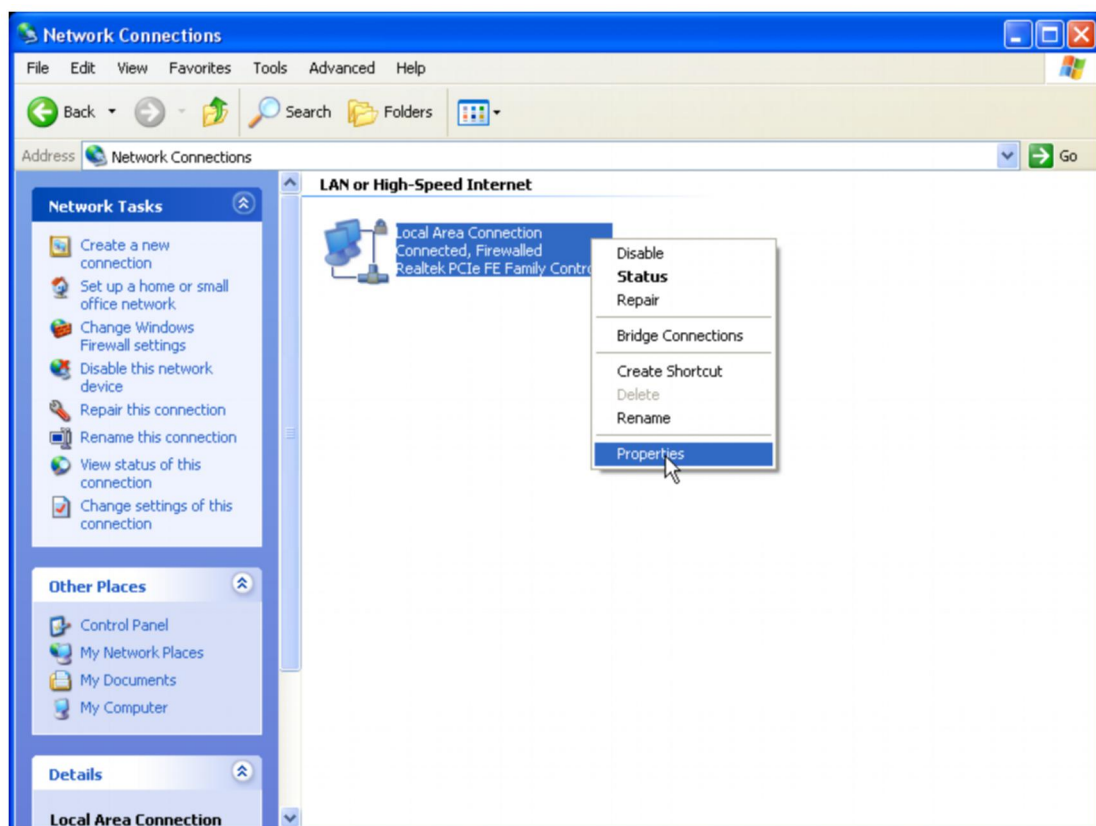
- 1) Click **Start > Control Panel**.



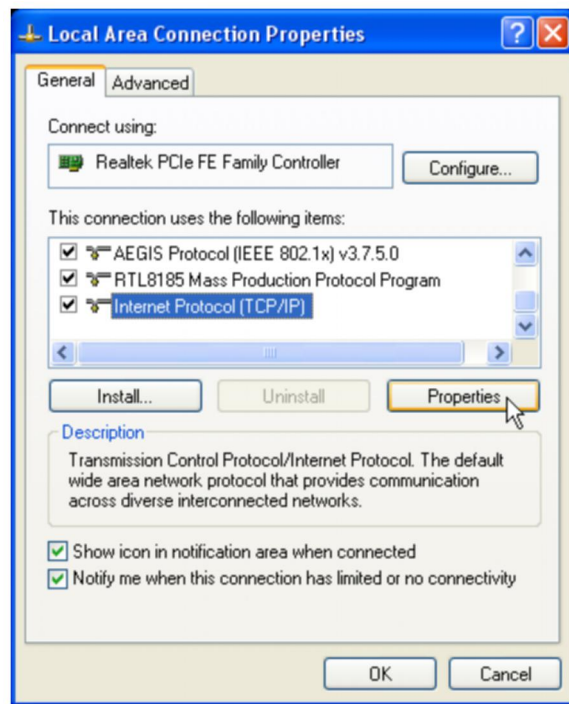
- 2) Select and double click **Network Connections**.



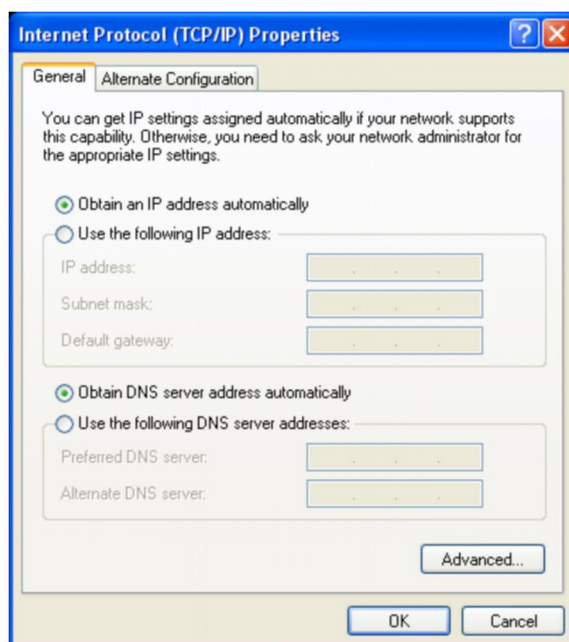
3) Right click **Local Area Connection** and then select **Properties**.



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

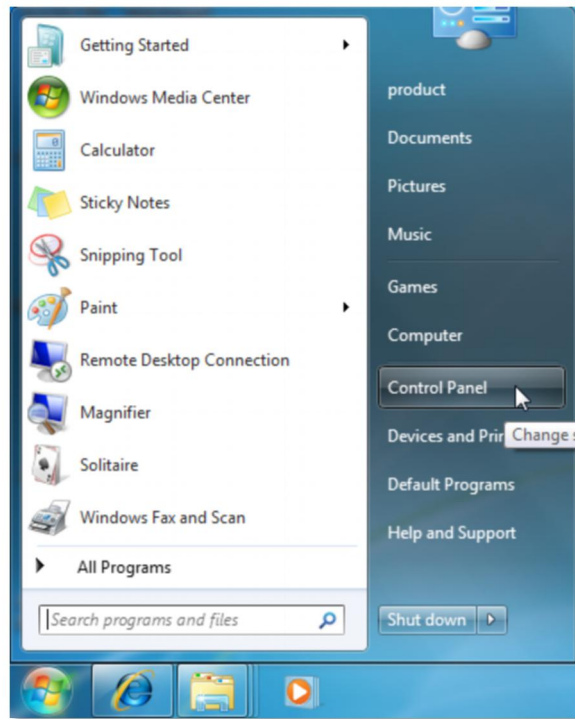


- 5) Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Then click **OK**.

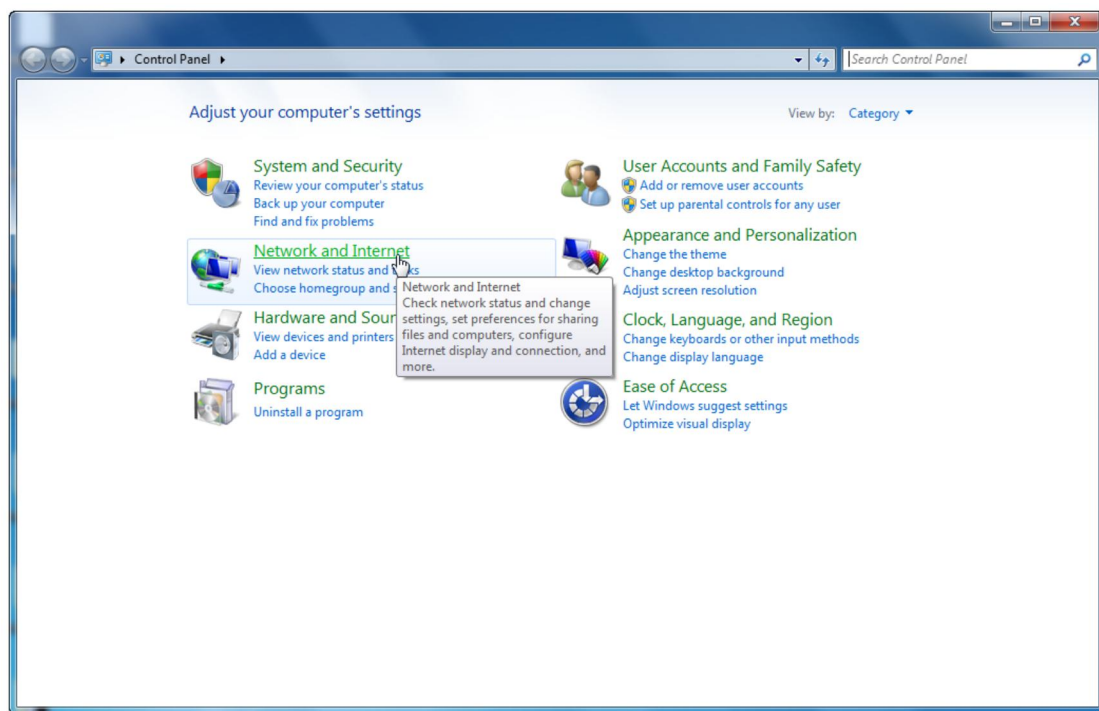


For Windows Vista/7

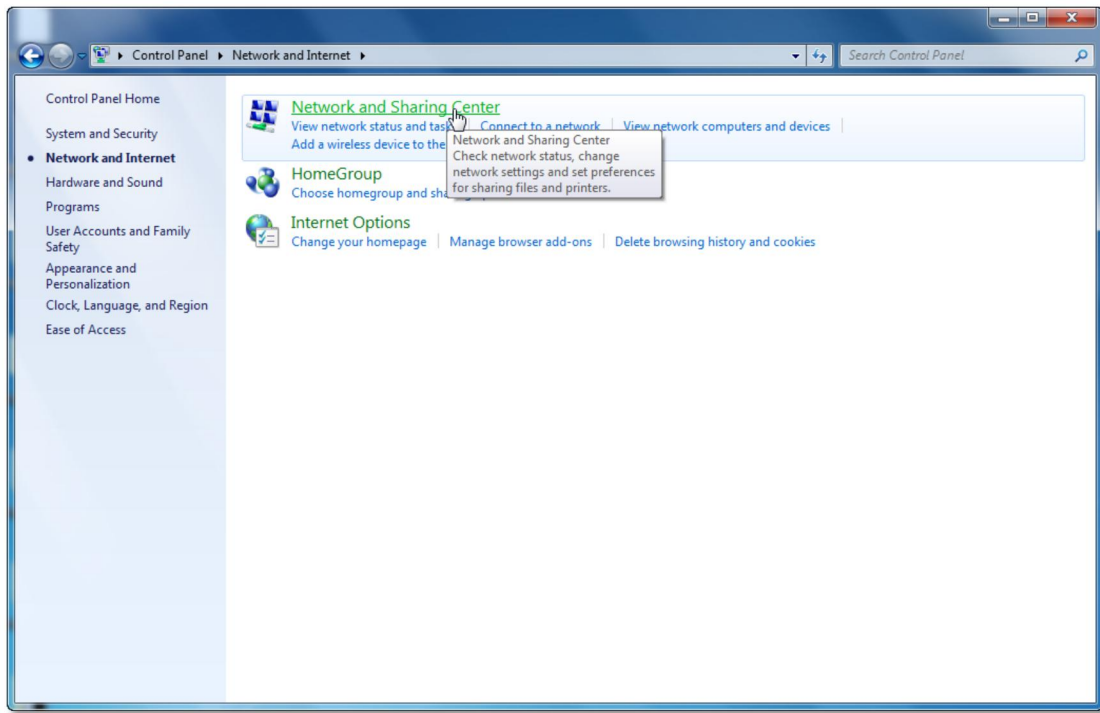
- 1) Click **Start>Control Panel**.



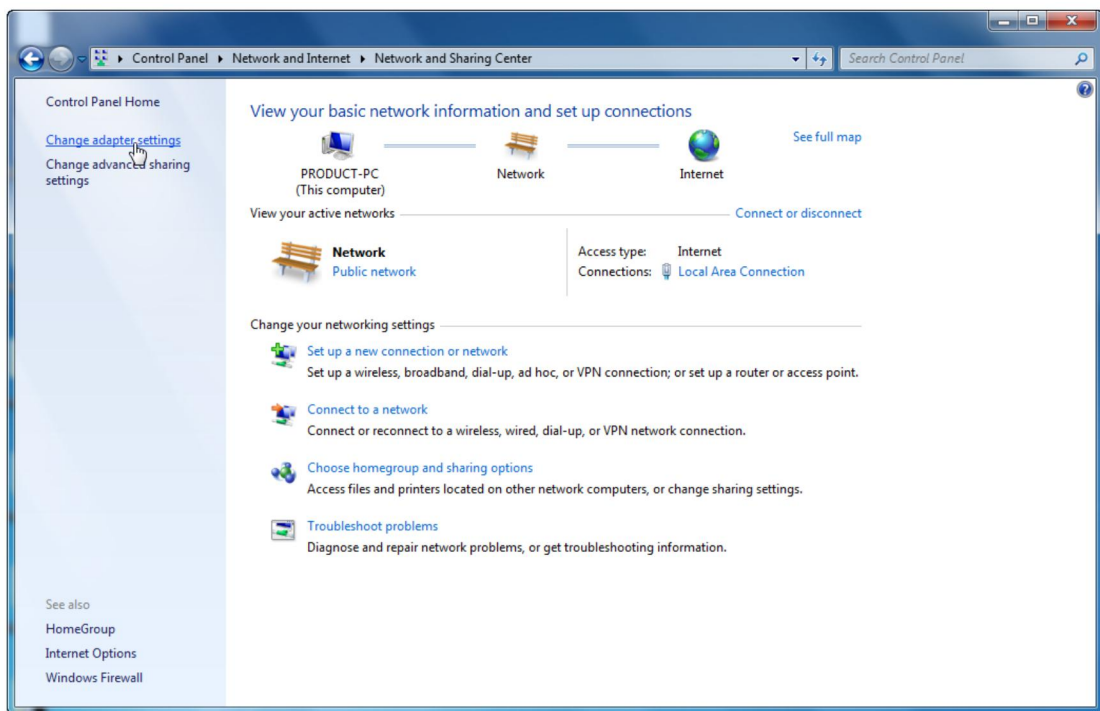
2) Click **Network and Internet**.



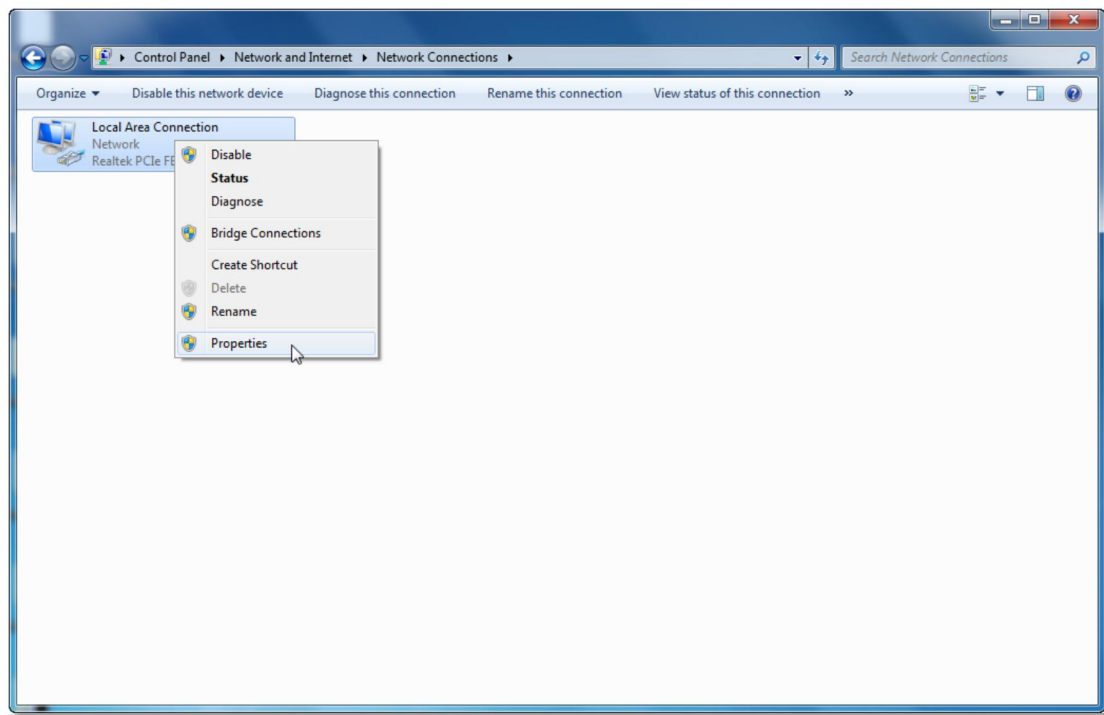
3) Click **Network and Sharing Center**.



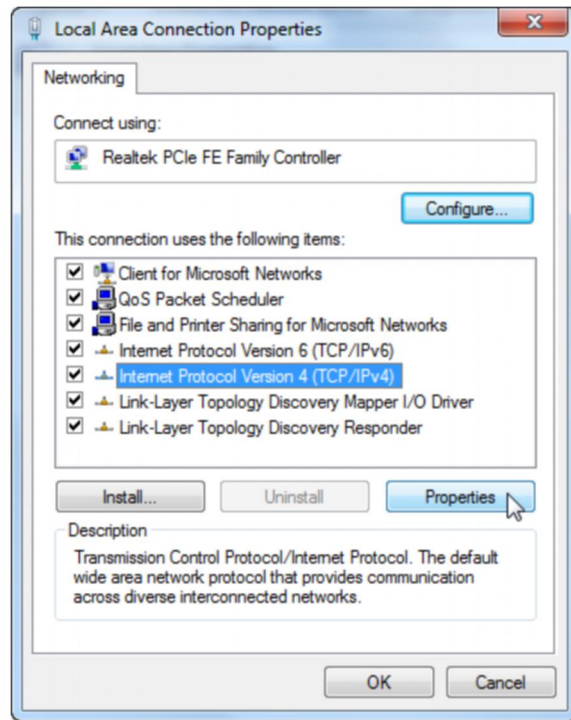
4) Go to **Change Adapter Settings (win7)/Manage Network Connections (Vista)**.



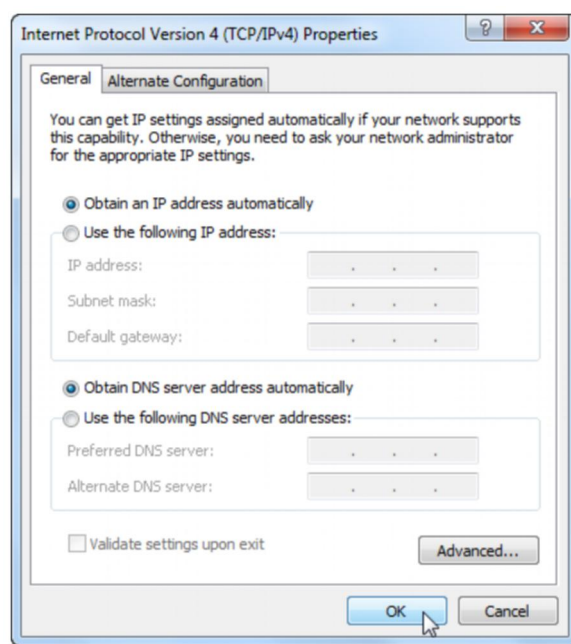
5) Right click **Local Area Connection**, choose **Properties**.



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

A screenshot of the login page for the router at 192.168.1.1. The page has a "Sign in" header and a warning: "http://192.168.1.1 Your connection to this site is not private". Below this, there are two input fields: "Username" with the value "admin" and "Password" with masked characters "*****". A blue "Sign in" button and a grey "Cancel" button are at the bottom right. A blue box highlights the username and password fields.

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

A screenshot of the MK600 web management page. The page has a blue header with "MK600" and a language dropdown set to "English" and a "Reboot" button. On the left, there is a sidebar menu with icons and labels for "Status", "WiFi", "LAN", "WAN", "Firewall", "Administration", and "System Log". The main content area displays connection status information in a table-like format.

Connection Status:	Connected
Connection Type:	LTE
Modem Model:	ZTE LM102
Signal:	
Session Uptime:	0d 00h 35m
Traffic During The Session:	↓ 63.42 KiB ↑ 78.79 KiB
Current Data Rate:	↓ 0 Kbps ↑ 0 Kbps
IPv4 Address WAN:	10.13.229.72
Gateway WAN:	10.13.229.71
DNS:	202.96.134.33 202.96.128.166
MAC Address	00:00:00:00:00:00

🏠 Status

- 📶 Clients
- 📶 LTE
- 📶 WiFi
- 🔥 WiFi
- ↑ LAN
- 🌐 WAN
- 🔥 Firewall
- ⚙️ Administration
- 📋 System Log

Client List				
Type	Name	LAN IP	MAC Address	Block
🖥️	LAPTOP-6IH5GVK3	192.168.1.13	000EC6557E2F	✖
Blocked Client List				
Type	Name	LAN IP	MAC Address	Unblock
No Data				
Apply Refresh				

🏠 Status

- 📶 Clients
- 📶 LTE
- 📶 WiFi
- 🔥 WiFi
- ↑ LAN
- 🌐 WAN
- 🔥 Firewall
- ⚙️ Administration
- 📋 System Log

2.4GHz

Enable Radio? ☒ ON

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:

MK600_0017

Hide SSID:

OFF

Wireless Mode:

g/n Mixed (*)

Channel Bandwidth:

20/40 MHz

Radio Channel:

Autoselect

Extension Channel:

Above (+4)

Fixed TX Rate Link Mode:

No (*)

Authentication Method:

WPA2-Personal

WPA Encryption:

AES

WPA Pre-Shared Key:

Network Key Rotation Interval:

3600

[0..2592000]

TX Power Adjustment (%):

100

[0..100]

Region Code:

China (channels 1-13)

Apply

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

192.168.1.1

Subnet Mask:

255.255.255.0

255.255.255.0

Enable Spanning Tree Protocol (STP)?

ON

Apply

MK600

English

Reboot

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:

lan

IP Pool Starting Address:

192.168.1.100

IP Pool Ending Address:

192.168.1.200

DHCP Lease Time (sec):

86400

[120..604800]

Default Gateway:

Manually Assigned IP around the DHCP List

Enable Manual Assignment?

OFF

Apply

MK600

English

Reboot

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

Apply

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:Auto

PIN Code:

Internet Check

Enable Internet CheckON

Check TypePING

Interval6[3..600]

Address 1114.114.114.114

Address 2www.baidu.com

Address 3www.qq.com

Apply

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:UPnP (*)

Restrict forwarding rules only to their IP?Yes (*)

Allow External Port Range:80 - 65535[1..65535]

Allow Internal Port Range:21 - 65535[1..65535]

Autoclean Rules Interval (sec):600[0..86400]

Minimal Rules Before Autoclean:10[1..999]

Manual Port Forwarding

Enable Manual Port Forwarding?OFF

Apply

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 uncertain incoming ports. Please use it carefully.

IP Address of Exposed Station:

192.168.1.13 (LAPTOP-6IH5GVK3)

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

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:No

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

Administration

System

Services

Firmware Upgrade

Settings

System Log

Administration - System

Base administration control.

System Identification

Device Name:MK600

Administrator Login:admin

New Password:

Retype New Password:

System Time

Time Zone:(GMT+08:00) Beijing, Hong K

NTP Synchronization Period:1 day (*)

NTP Server 1:time1.aliyun.comFind NTP

NTP Server 2:2001:470:0:50::2

Miscellaneous

Remote Log Server:514

Enable Syslog Floating Toolbar?Yes (*)

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[80..65535]

Restricting Web Access from LAN:No (*)

Terminal Services

Enable Telnet Server?OFF

Enable SSH Server?No (*)

Apply

MK600

English

Reboot

Status

WiFi

LAN

WAN

Firewall

Administration

System

Services

Firmware Upgrade

Settings

System Log

Administration - Firmware Upgrade

Product ID:MK600

Firmware Version:3.4.5178.5b80b4a

New Firmware File:Choose FileNo file chosen

Upload

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

Reboot

Status

WiFi

LAN

WAN

Firewall

Administration

System

Services

Firmware Upgrade

Settings

System Log

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:Reset

Save Setting to a File:Save

Restore Settings from a File:Choose FileNo file chosen

Upload

NVRAM to Flash Memory Committing Mode:Always after changes (*)

Commit NVRAM Content to Flash Memory Now:Commit

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