Kasda®
Networks with Innovation

User Manual

KW6516
AC 1200Mbps OpenWRT Gigabit Router

Default Login Details
Login Address: www.mykasda.com
Login Password: Set up by users
Default Wi-Fi SSID: Kasda xxxx KW6516
(Printed on product label)
Default Wi-Fi Password: 12345678

www.kasdanet.com

Rev: 2.0.0
2017031001

NOTICE

This document contains proprietary information protected by copyright, and this Manual and all the accompanying hardware, software, and documentation are copyrighted. All rights are reserved. No part of this document may be photocopied or reproduced by mechanical, electronic, or other means in any form.

The manufacturer does not warrant that the hardware will work properly in all environments and applications, and makes no warranty or representation, either expressed or implied, with respect to the quality, performance, merchantability, or fitness for a particular purpose of the software or documentation. The manufacturer reserves the right to make changes to the hardware, software, and documentation without obligation to notify any person or organization of the revision or change.

All brand and product names are the trademarks of their respective owners.

Content

1 Introduction

Thank you for choosing our product. The KW6516 Wireless Router uses DD-WRT solution that fully complies with IEEE802.11b/g/n/ac standards. It will provide your SOHO with convenient Internet.

1.1 Main Features

1.1.1 Wireless
Fully IEEE 802.11b /g /n & IEEE 802.11ac compatible

Wireless data rate up to 1200 Mbps

Operating in the unlicensed 2.4 GHz &5GHz ISM band

Supports 64/128 bits WEP, WPA, WPA2, WPA/WPA2-PSK, 802.1x

1.1.2 Network Protocol and Features

Ethernet to modem Self-Learning Transparent Bridging

Internet Control Message Protocol (ICMP)

IP Static Routing

MTU Adjustment

Routing Information Protocol (RIP, RIPv2)

Network Address Translation (NAT)

Virtual Server, Port Forwarding

Dynamic Host Configuration Protocol (DHCP)

DDNS Support/DNS Relay Agent

Simple Network Time Protocol (SNTP)

VPN pass-through (IPSec/PPTP/L2TP)

1.1.3 Firewall

Built-in NAT

MAC Filtering

Packet Filtering

Stateful Packet Inspection (SPI)

Denial of Service Prevention (DoS)

DMZ

1.1.4 Management Support

Web Based GUI

Upgrade or update via FTP/HTTP

Command Line Interface via Telnet

Diagnostic Test

Firmware upgrade-able for future feature enhancement

1.1.5 Operating System Support
WINDOWS 98/SE/ME/2000/XP/VISTA/7/8/8.1/10

Macintosh

LINUX

1.1.6 Environmental
Operating humidity: 10%-90% non-condensing

Non-operating storage humidity: 5%-95% non-condensing

1.2   Packet Contents

The packet contents are as the following:

Router   x 1

Power Adapter   x 1

Ethernet Cable   x 1

Quick Setup Guide   x 1

1.3   System Requirements

Broadband Internet Access Service (modem/Ethernet)

One Modem that has an RJ45 connector (which is not necessary if the Router is connected directly to the Ethernet)

PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors

TCP/IP protocol on each PC

Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari

1.4   Factory Defaults

The device is configured with the following factory defaults:

Login Address: www.mykasda.com

Login password: Set up by users

Default Wi-Fi SSID: Kasda XXXX KW6516

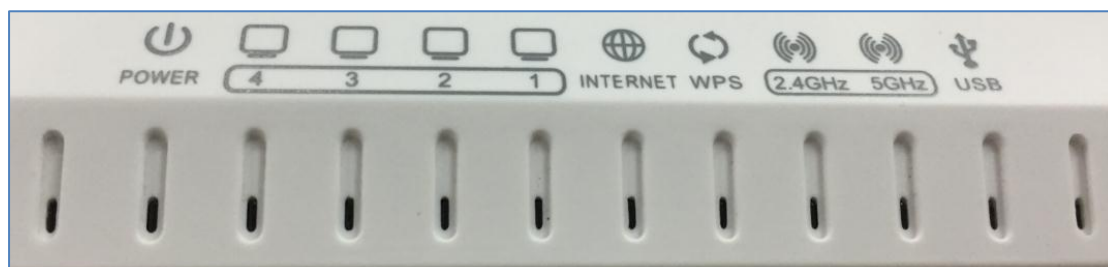Default Wi-Fi Password: 12345678

1.5   Warnings and Cautions

Never use the product near water.

To prevent dangerous overloading of the power circuit, be careful about the designed maximum power load ratings. Not to follow the rating guideline could result in a dangerous situation.

2 Hardware Description

Front Panel

LED	Color	Function

POWER	Blue	OFF: Power Not Supplied On: Power Supplied
LAN	Blue	On: LAN link established and active via LAN port Blinking: Data activity occurs Off: No LAN link via LAN port
INTERNET	Blue	On: The WAN port has detected a link with an attached device Blinking: Data is being transmitted or received by the WAN port Off: No WAN link via the WAN port
WPS	Green	On: WPS connection is established Blinking: Trying to establish a WPS connection Off: WPS function is off or no WPS connection
WIFI 2.4G/5G	Blue	On: The 2.4GHz or 5GHz wireless module is ready and idle Blinking: Data transmitting or receiving over WLAN Off: The 2.4GHz or 5GHz wireless function is off
USB	Blue	On: USB connection is established Blinking: : Data transmitting or receiving over USB. Off: USB function is off or no USB connection

Rear panel
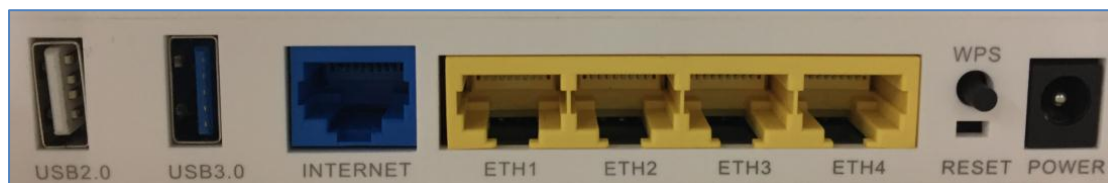
Port	Function
INTERNET	Connect the device to a cable or modem

ETH1,2,3,4	Connect the device to your PC's Ethernet port, or to the uplink port on your hub/switch, using a RJ-45 cable
RESET	System reboot or reset to factory defaults
WPS	Turn on/off your WPS
Power	Connect to the supplied power adapter
USB2.0/3.0	Connect to a printer or other storage device

3 Hardware Installation

This chapter shows you how to connect Router. Meanwhile, it introduces the appropriate environment for the Router and installation instructions.

1. Using an Ethernet Cable to connect the WAN port of the ROUTER to a cable or modem.

2. Using an Ethernet Cable to connect the LAN port of the ROUTER to your LAN or a PC with network card installed.

3. Connect the power cable to the PWR connector on ROUTER, then plug in the power adapter to the AC power outlet, and then press the on-off button.

4   PC Configuration Guide

4.1 For windows 7

1. Click "**Start** -> **Control Panel**-> **Network and Internet** -> **View networks status** -> **Change adapter settings**"
2. Right-click **Wireless Network Connection**(or Local Area conncection), and then click **Properties**.
3. Select **Internet Protocol Version 4** (TCP/IPv4), and then clcik **Properties.**
4. Select **Obtain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

4.2 For Windows 8

1. Move your mouse to the lower right corner and click the **Serch** icon in the popus.
2. Go to **Apps**, type **Control Panel** in the serche box and press enter.
3. Go to "**Control Panel** ->l **View networks status**-> **Change adapter settings**"
4. Right-click **Ethernet**,select **Properties**, then double-click **internet protocol version 4(TCP/IPv4)**.
5. Select **Otain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

4.3 For windows XP

1. Click "**Start**" -> **Control Panel** -> N**etwork and Internet Connection** -> **Network Connections**"
2. Right-click **Wireless Networks Connection** (or Local Area Connection), and then click **Properties**.
3. Select **Internet Protocol (TCP/IP)**, and then click **Properties**.

4. Select **Otain an IP address automatically** and **Obtain DNS Server address automatically**. Then click OK.

4.4 For Mac OS X

1. Click the **Apple** icon on the upper left corner of the screen.
2. Go to **System Preference** -> **Network**.
3. Select **Airpor**t on the left menu bar, and then click **Advanced** for wireless configuration; or select **Ethernet** for wired configuration,
4. In the **Configure IPv4** box under TCP/IP, select **Using DHCP**.
5. Click **Apply** to save the settings.

5 Quick Setup of the Router

In order to use the web-based management software, it will be necessary to use a computer or mobile phone which occupies the same subnet as the Router. The simplest way to do this for many users will be to use DHCP server that is enabled by default on the Router. Please make sure the wan connection is ok.

Setup Wizard will guide you through step-by-step process to configure your router and connect to the Internet.

5.1 Quick Setup of the Router via mobile phone

1. Connect your phone to router by using default WiFi network name and password, which are printed on product label at the bottom of the router.
2. Launch a browser on your phone to log in router with www.mykasda.com. Setup your initial login password and then click next button to continue.
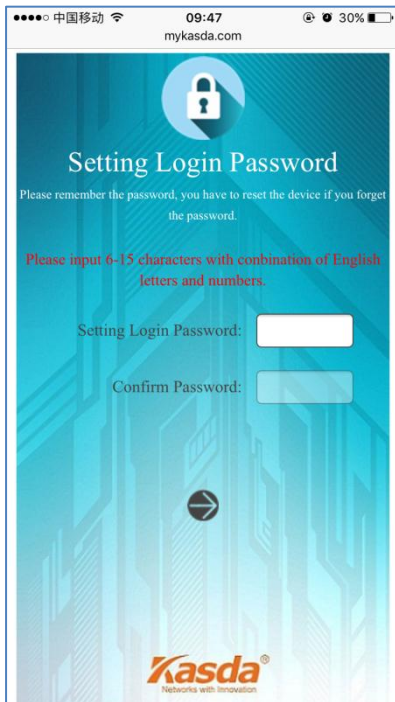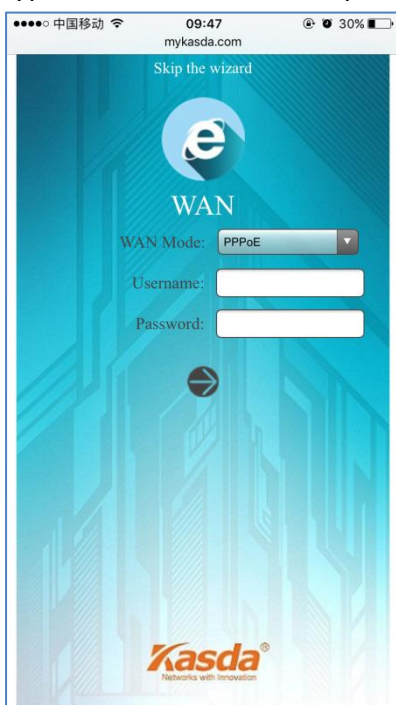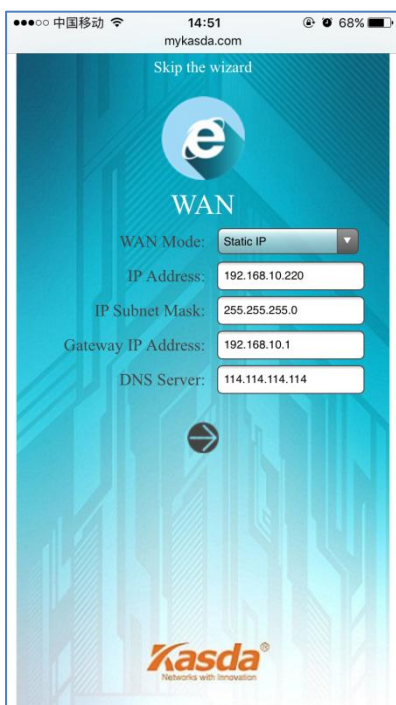
3. Select the WAN Mode

If you don't need any Internet connection information, choose "DHCP".
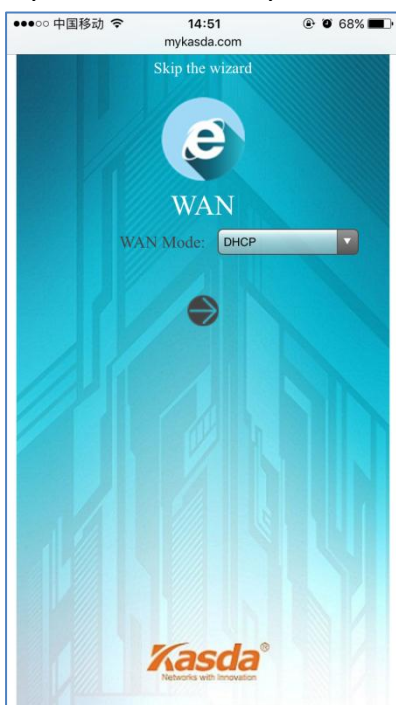
If your ISP gives you a PPP username and password for you, choose "PPPoE" and type in the username and password.


If you have a IP address to connect to the Internet, choose "Static IP" and type in the **IP Address**, **IP Subnet Mask**, **Gateway IP Address** and **DNS Server**.
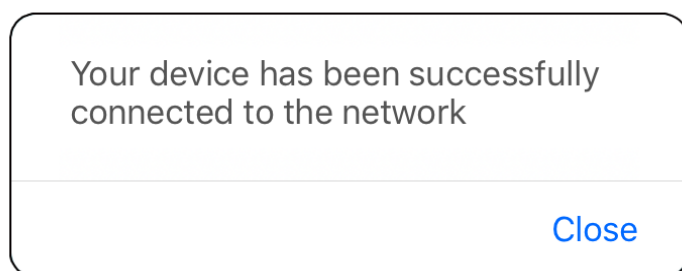
4. Setup your 2.4GHz & 5GHz SSID and password. On the following page, you can rename the SSID and change password or just let it be default. The default password is 12345678, you can check it by clicking the eye button.
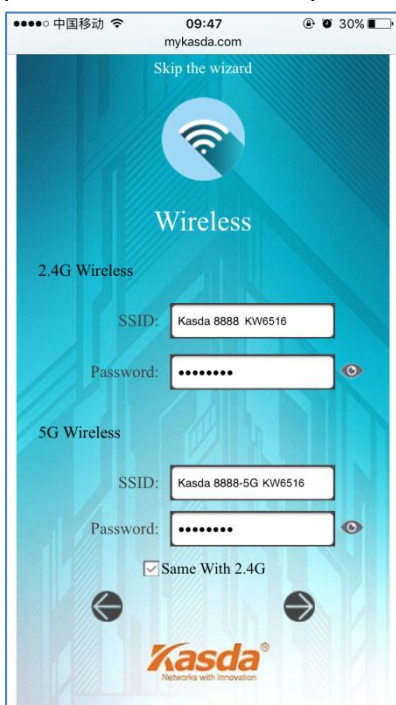
5. Click **Save/Apply** and wait for changes to be applied.
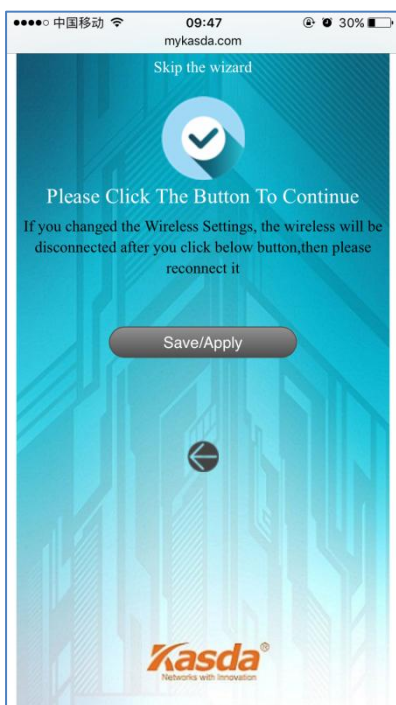
When it blows up the following tips, then you can connect your wired or wireless devices to the Internet.

Note: If you have changed your wireless network name and password, you must sign in with new SSID/password to regain access to the Internet.
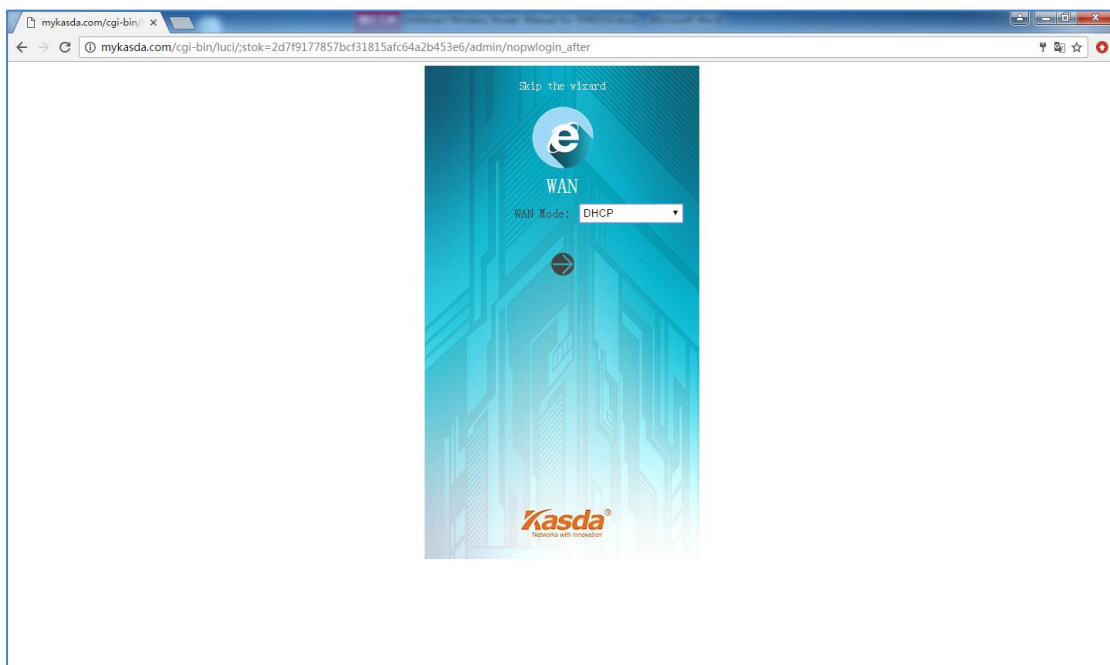
5.2 Quick Setup of router via PC

1. Connect your PC to router wired or wirelessly.

2. Launch a browser, such as Internet Explorer or Chrome, and then use www.mykasda.com to log on the web management page. Here please setup your initial login password. Then click next button to continue.
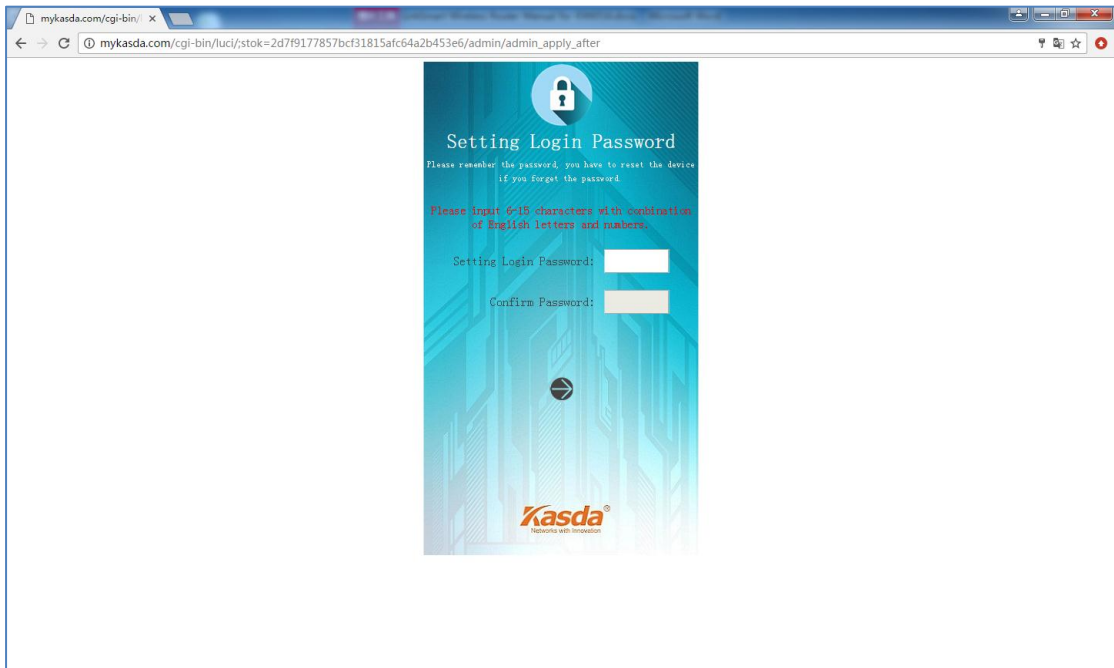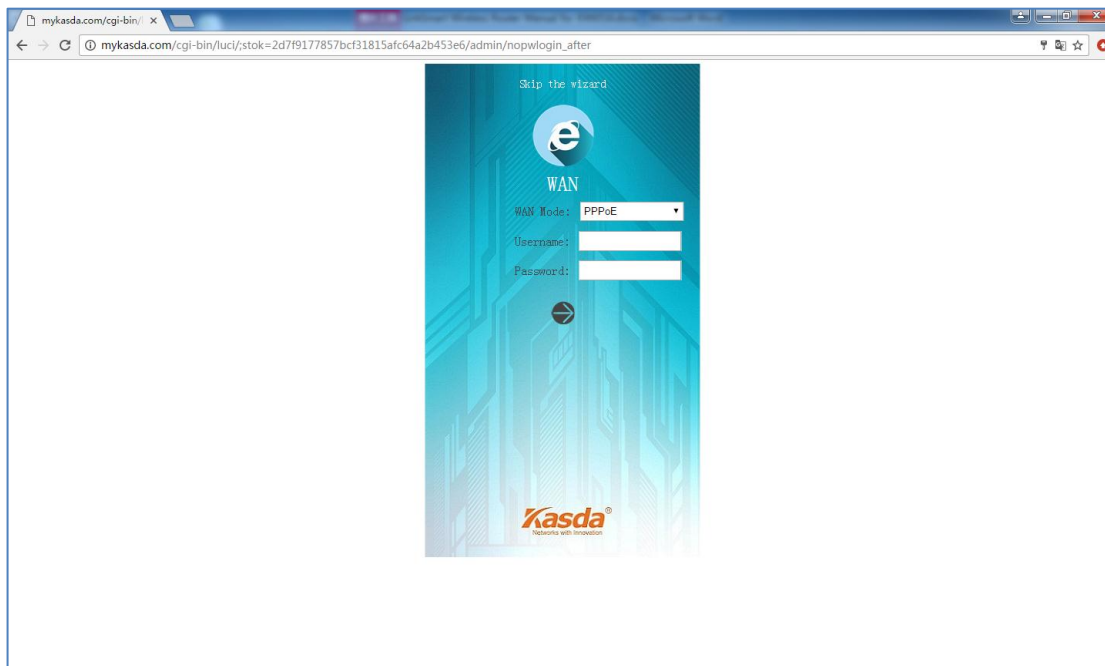
3. **Set up your WAN Mode**

If you don't need any Internet connection information, choose "DHCP" as your WAN Mode.


If your IPS gives you a PPP username and password, choose "PPPoE" as your WAN Mode and type in the username and password.
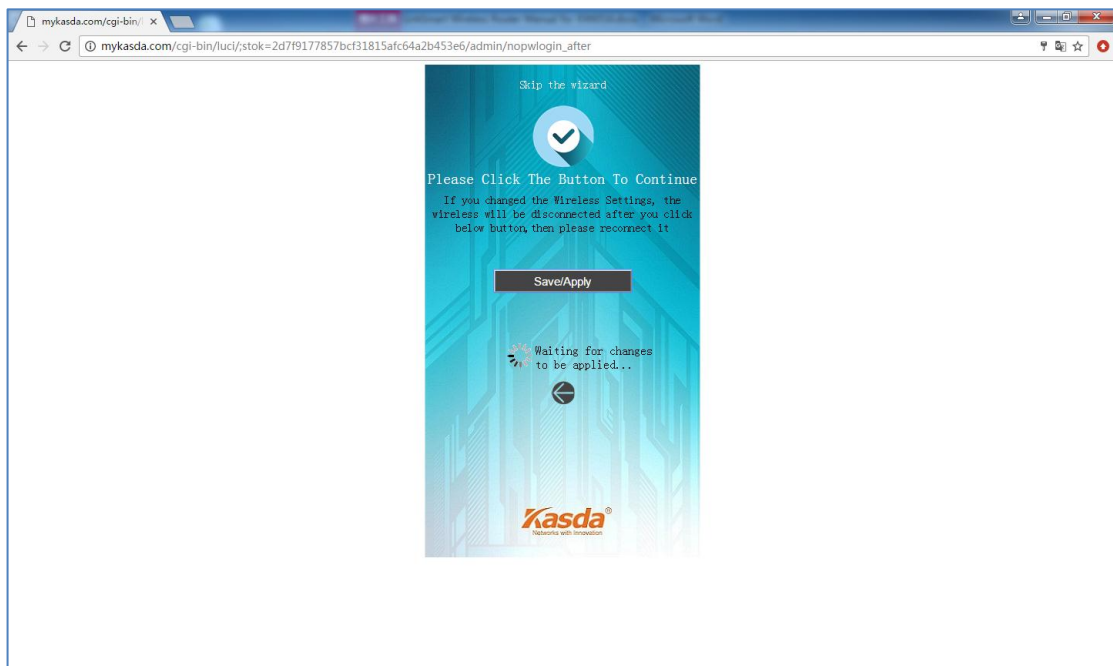
If you have an IP address to connect to the Internet, please choose "Static IP" as your WAN Mode and type in the IP Address, IP Subnet Mask, Gateway IP Address and DNS Server.
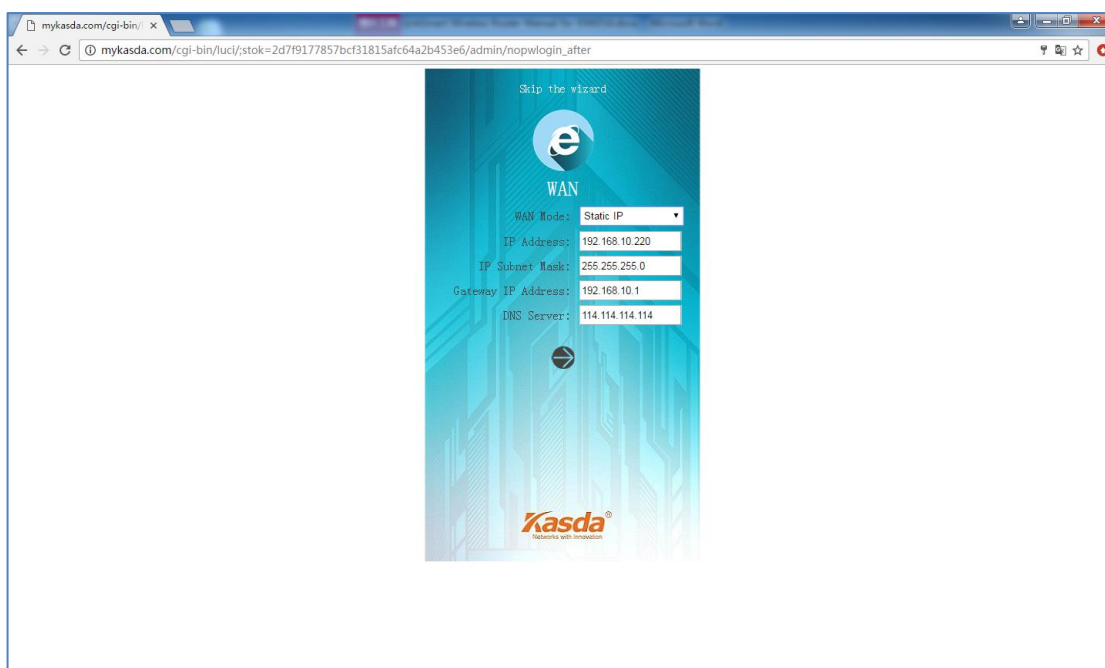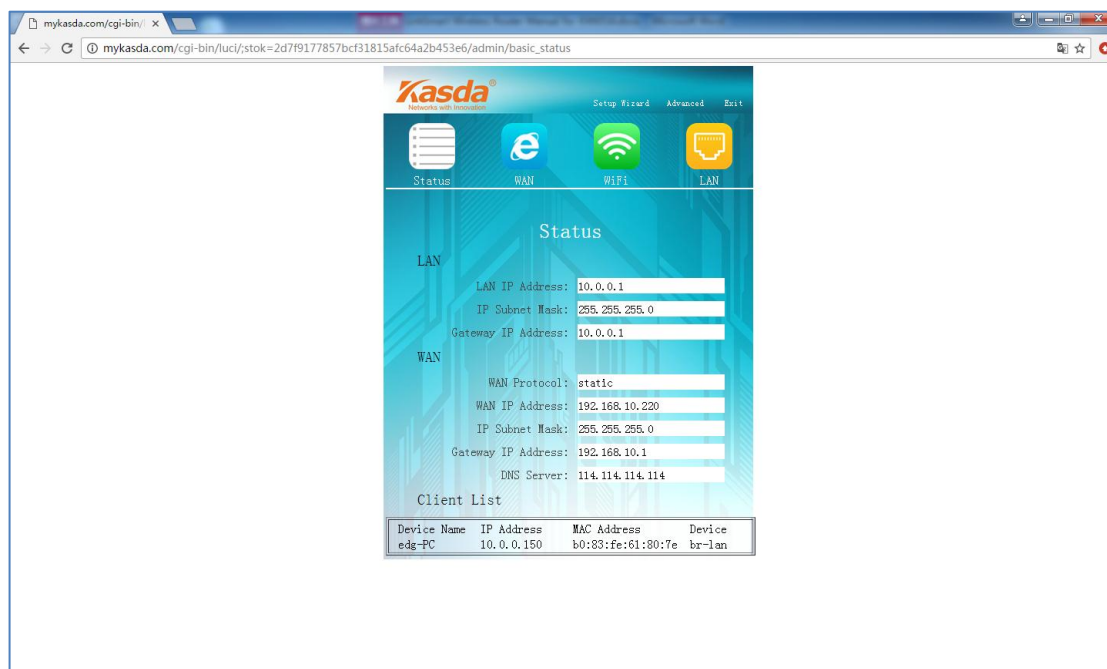

4. Set up your 2.4GHz and 5GHz SSID and password. Keep it as default or rename the SSID and change the password as you like.
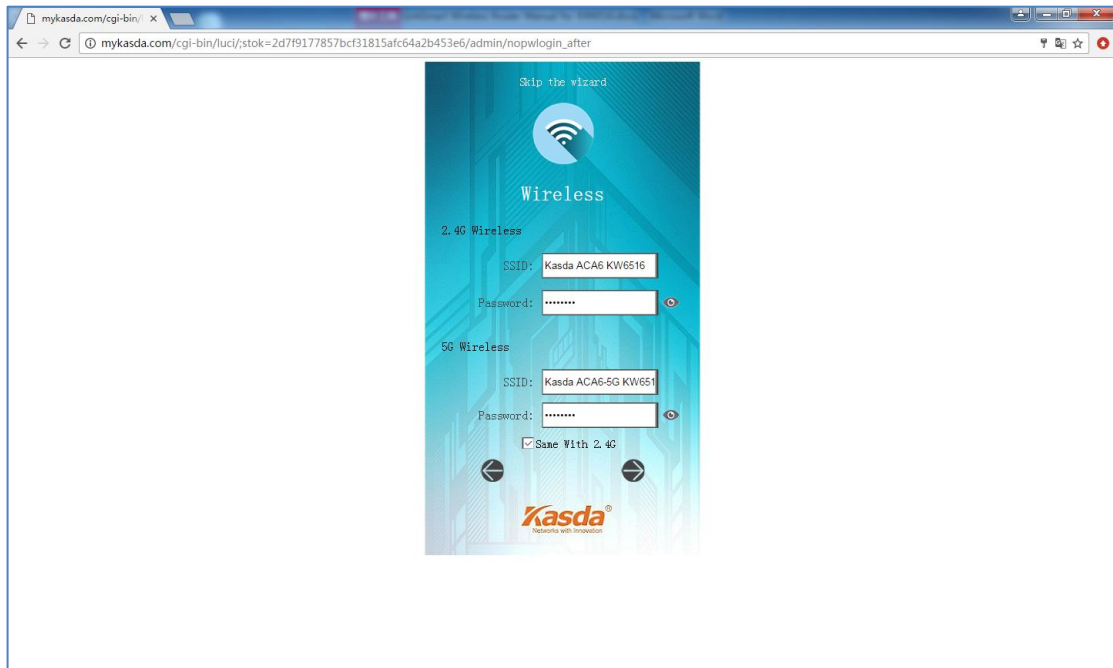
5. Click Save/Apply to continue and wait for the changes to be applied.

After finish the Wizard Setup, you will enter the following page; here you can do a quick change to your WAN, WiFi and LAN.

6 Web-based Advance Management Guide

This chapter will introduce how to configure your router advanced behind the advanced menu. There are four options: Status, System, Network and Logout.
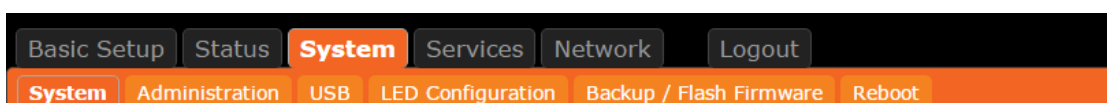
6.1. Status

Click **"Status"**, you will go to the device information page. The page displays the current status about **Overview**, **Firewall**, **Routers**, **System Log**, **Kernel Log**, **Processes and Real time Graphs**.
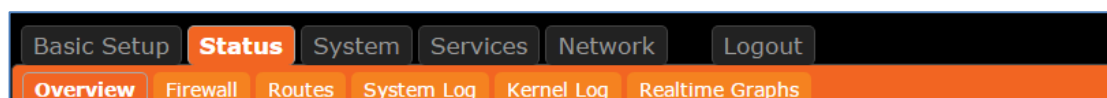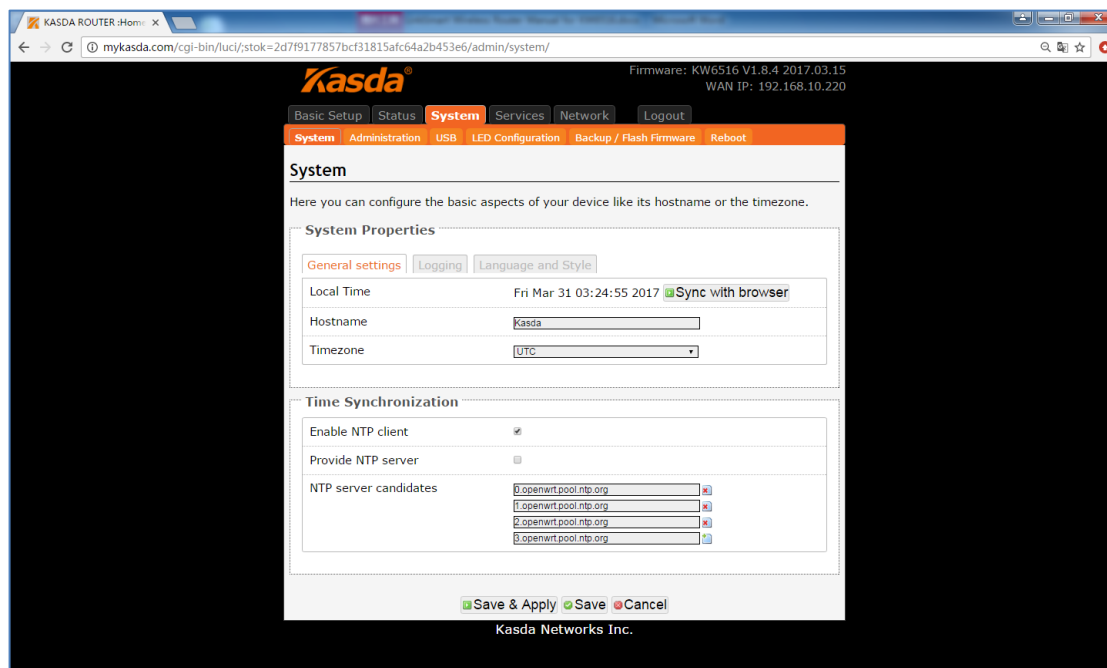

6.2. System

Click **"System"**, you will go the system page. In this page, there are six options: **System**, **Administration**, **Software**, **USB**, **Backup / Flash Firmware** and **Reboot**.
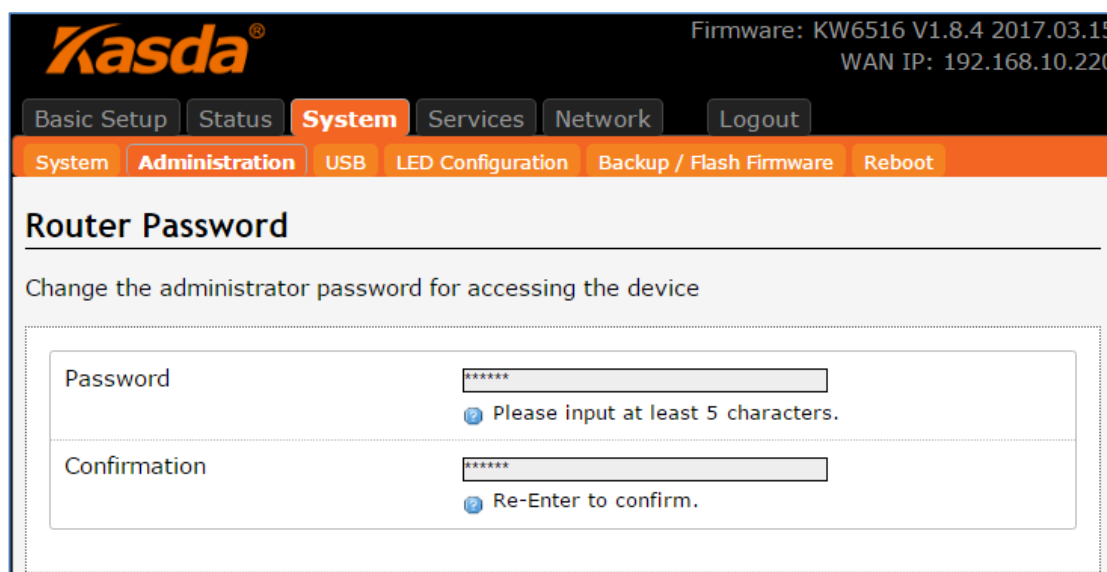
6.2.1 System

Here you can configure the basic aspects of your device like its hostname, time -zone, language and style.
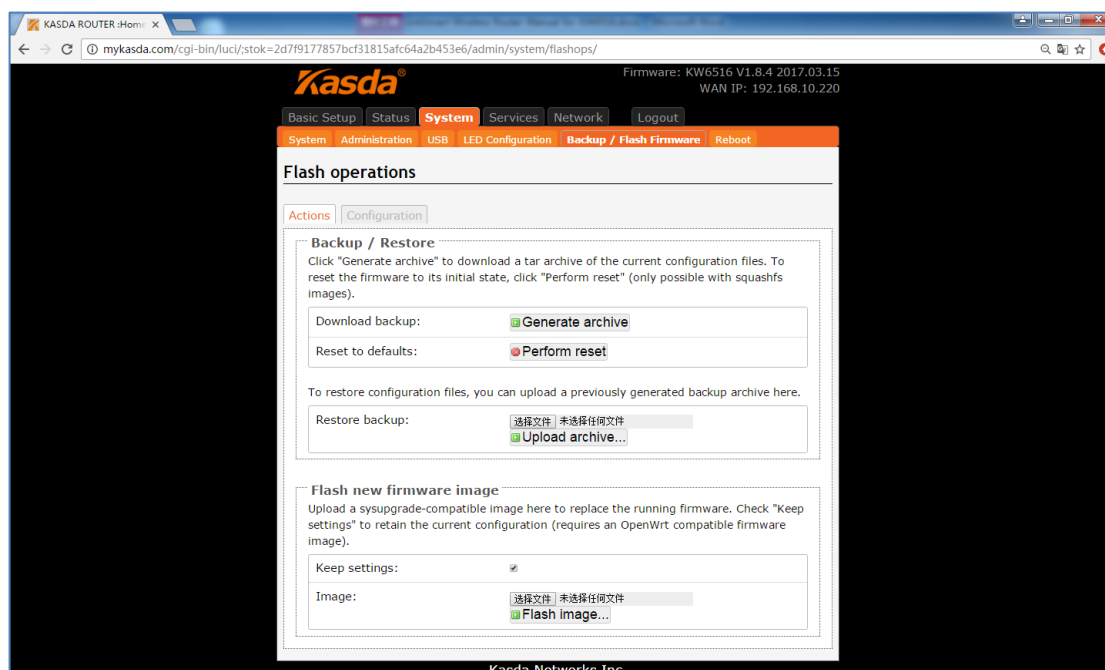

6.2.2 Administration

Click **"Administration"**, you will go to the **Router Password** page, and you can change the administrator password for accessing the device.

6.2.3 Backup / Flash Firmware

Click **"Backup / Flash Firmware"**, you will go to the **Flash operations** page. On this page, you can do the backup or update the firmware version of routers.

Generate archive is to download a tar archive of the current configuration files and save it for back up. You can save it onto another place such as your computer desktop.

Perform reset is to reset the router's firmware to its initial state. If you forget your router's web management login password, you can reset the router by performing reset.

Upload archive is to restore the configuration files by upload a previously generated backup archive here.

Flash new firmware image is to upload or download a sys-upgrade compatible image here to replace the current running firmware. And if you want to retain the configuration before uploading or downloading, please check "Keep Settings". As for how to flash new firmware image, you need to choose the firmware you want to flash, and then click **Flash image** to wait for the flash finished. During this period, please do not power off the router.

6.2.4 Reboot

Click **"Reboot"**, you will go the following page. Here is for rebooting the operating system of your device by clicking **"Perform reboot"**.

When you reboot your router, the Internet connection will be lost until the process finished.
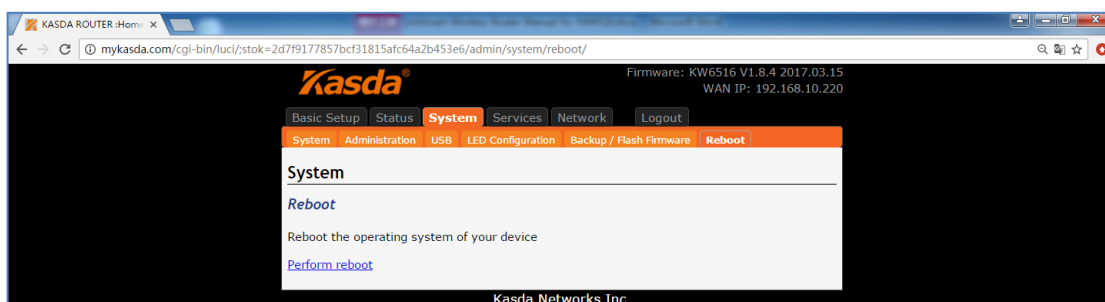
6.3. Network

6.3.1 Interfaces

Click **"Interfaces"**, you can see the following page about the router's interfaces, such as **WAN, WAN6, GUEST** and **LAN.**

On this page, you can overview the router's interfaces status and do some modify actions to them, such as Connect, Stop, Edit and Delete.
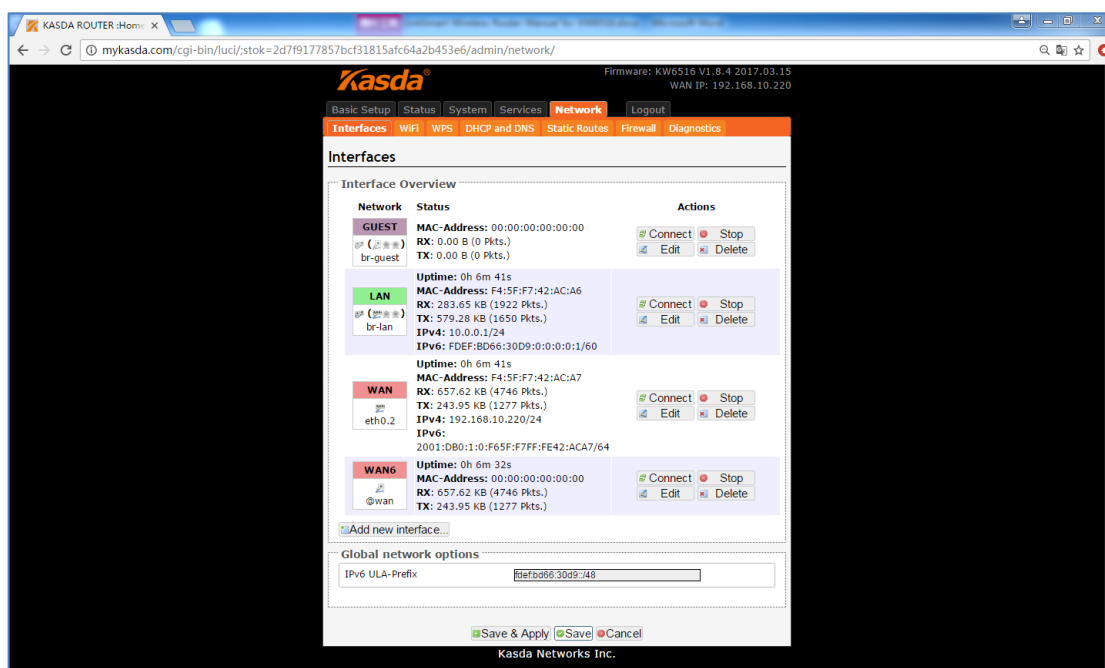
Interface—WAN

Choose the WAN interface, and you will go to the common configuration such as General Setup, Advanced Settings, Physical Settings and Firewall Settings.
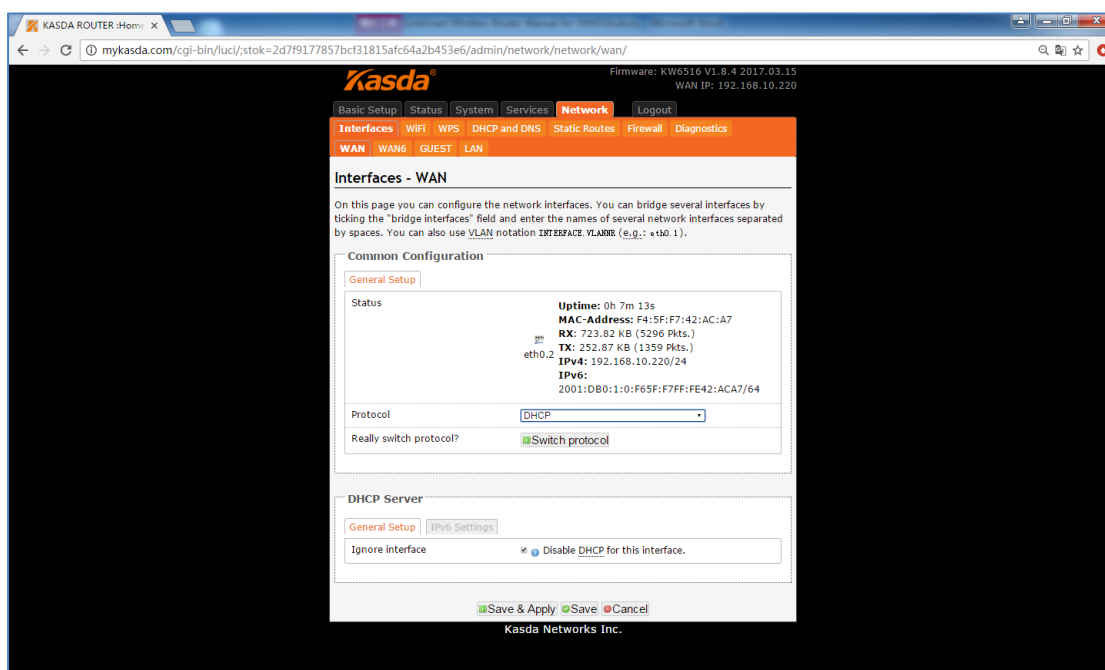
Wan Connection Protocol

1. DHCP

If you connect with a dynamic IP address or cable modem, keep the default: DHCP Protocol.

2. Static

To use a fixed IP Address to connect the Internet, select Static Protocol. Then click **switch protocol** to type in the parameters your ISP provide.

IPv4 Address – enter the IPv4 address provided by your ISP. It is a necessity to connect Internet.

IPv4 netmask – enter the netmask provided by you ISP. It is a necessity to connect Internet.

IPv4 gateway – enter the gateway IP address provided by your ISP. It is a necessity to connect Internet.

Use custom DNS servers – enter the DNS (Domain Name System) server IP address provided by your ISP. If you have two or more DNS servers, you can click the add button behind to add.

3. PPPoE

If you use PPPoE connection, select PPPoE as your WAN Protocol and click Switch Protocol to confirm.
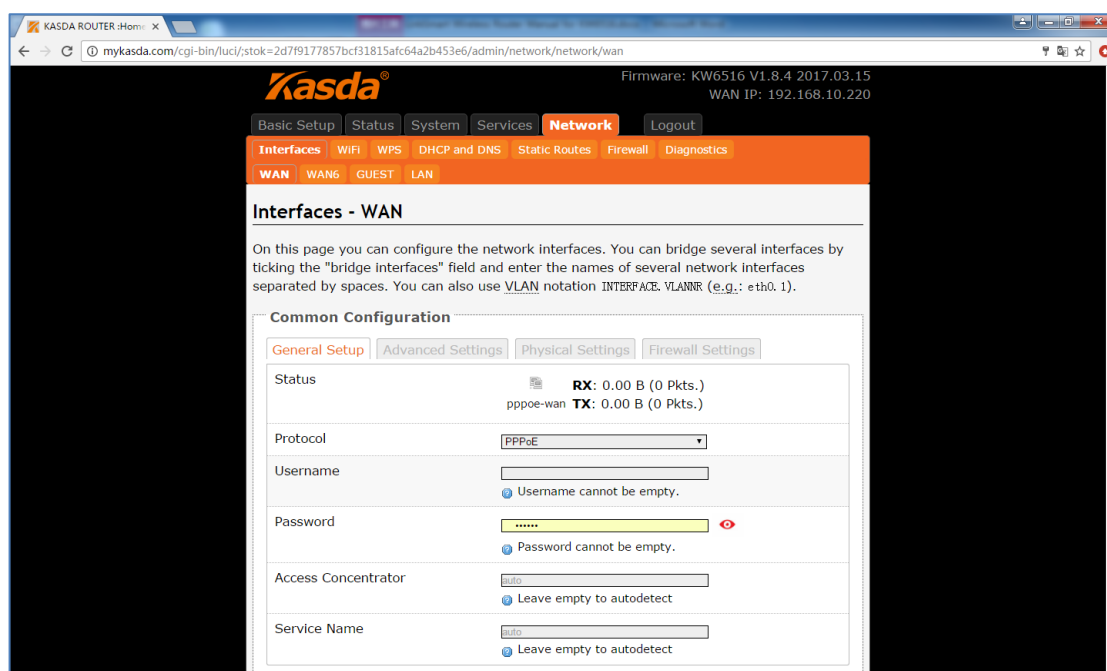
Username – enter the username provided by your ISP. It is a necessity to connect the Internet.

Password – enter the password provided by your ISP. It is a necessity to connect the Internet.

Access Concentrator – enter the Access Concentrator if required by your ISP.

Service Name – enter the Service Name, if required by your ISP, or just leave it empty to autodetect.

Interface – LAN
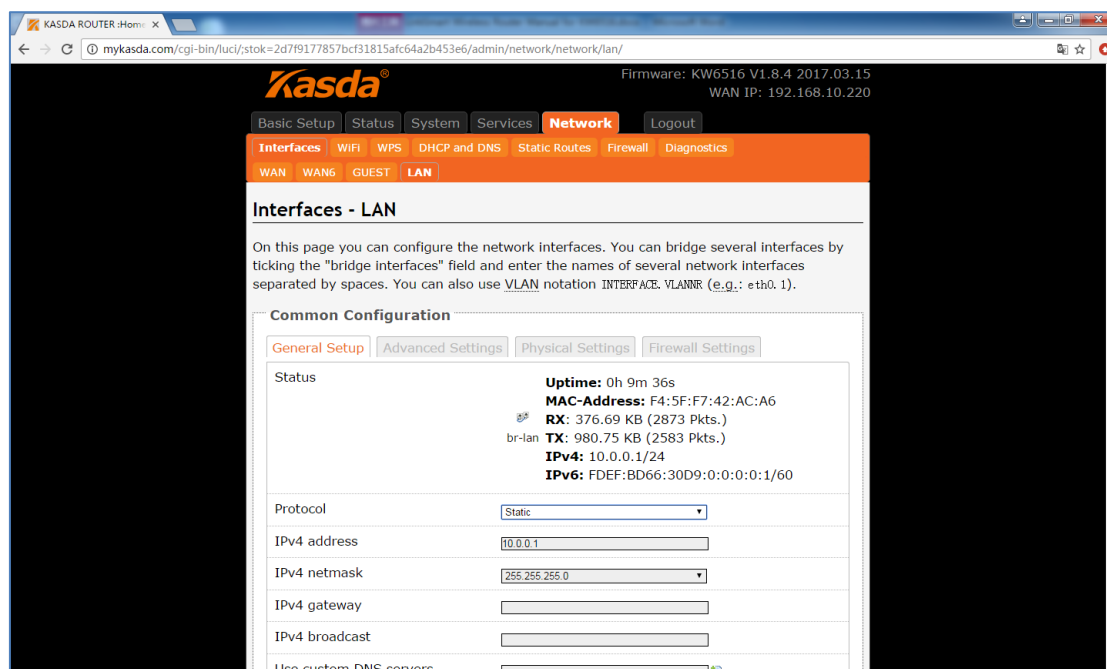
IPv4 Address / Netmask: this is the router IP address and subnet mask as seen on the Internet LAN. The default value is 192.168.1.1 for IP address and 255.255.255.0 for netmask.

Ignore interface – check it to disable the DHCP for this interface

Start IP – lowest leased address as offset from network address

Limit – enter the maximum number of PCs that you want the DHCP server to assign IP addresses to. The absolute maximum is 253, possible if 192.168.1.2 is your starting IP address.

Lease time – enter the length of time, in minutes, that a DHCP client will be allowed to use a dynamic IP address. The default is 0 minute, which means one day. After this time is up, the client will be automatically assigned a new dynamic IP address, or the lease will be renewed.

6.3.2 WiFi

Click **"WiFi"**, you will go to the wireless overview page. There are four wireless SSID by default: 2.4GHz, 5GHz and Guest for 2.4GHz&5GHz. On the overview page, you can **disable/enable**, **edit** and **remove** the WiFi SSID.
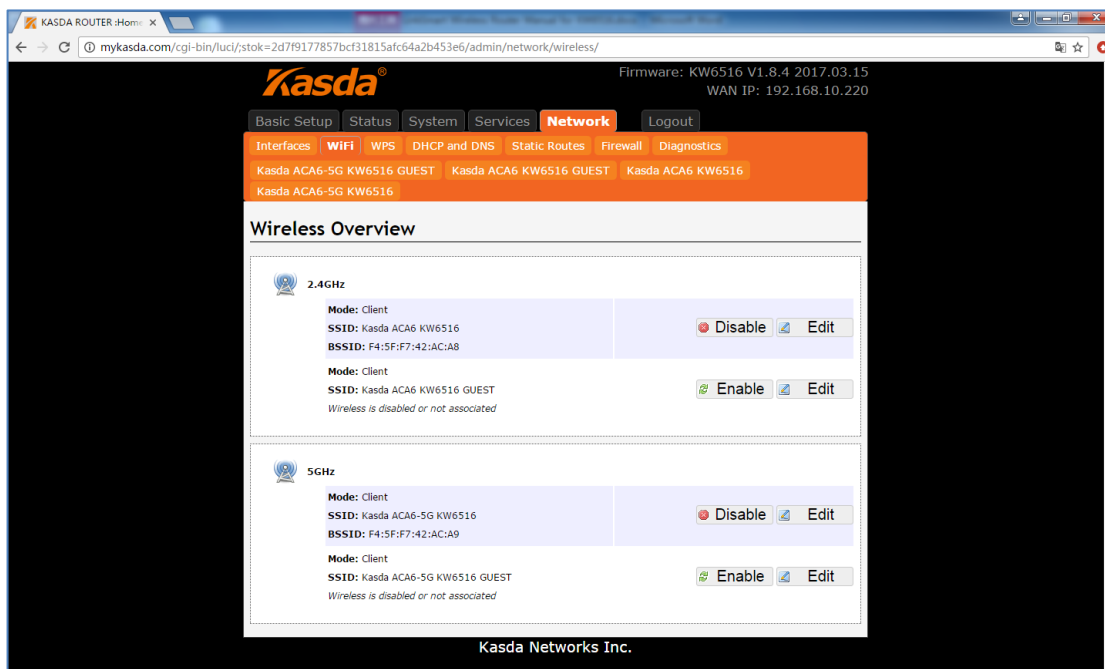
Click the **"Edit"**, and you will go the page where you can modify the parameters.
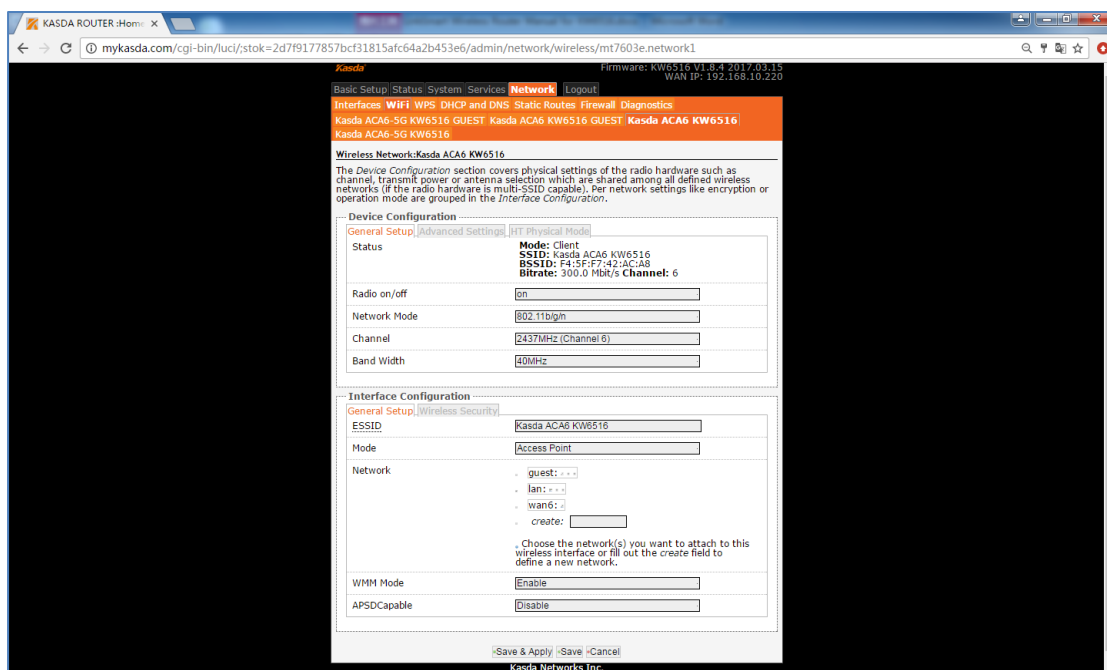
Radio on/off – when wireless clients survey the local area for wireless networks to associate with, they will detect the SSID radio by the router. To broadcast your router SSID, keep the default setting—on. If you do not want to broadcast the router SSID, then select off.

Network Mode – keep it default as 802.11b/g/n. If you have special demand, you can select the mode as you like.

Channel – this field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point. If you select auto, then router will choose the best channel automatically.

Bandwidth – the bandwidth of the wireless channel.

ESSID – it is the name of your wireless network. You can keep it default or rename it as you like.

Mode – when you set up the wireless network via Wizard Setup, it is Client mode by default. Most customers choose "Access Point".

Network – Choose the network(s) you want to attach to this wireless interface or fill out the *create* field to define a new network.

WMM Mode – keep it default "Enable".

APSDCapable – it is for power saving. Choose enable if you need or keep it default.

6.3.3 WPS

You can start WPS (Wi-Fi Protected Setup) here by click the Enable button.

6.4 Logout

Click here for logging out your router and it will go back to the login page.

Appendix: Frequent Asked Questions

This chapter offers some suggestions to solve problems you might encounter. The
potential problems are divided into 3 categories: Power, Hardware Connections, and LEDs;
Device Access and Login; Internet Access.

1. Power, Hardware Connections, and LEDs

None of the LEDs are on when power on the router.
Please make sure what you use is the power adaptor attached with the router package and
checks the connection between the AC power and router.

LAN LED does not turn on after connect Ethernet cable.
Please make sure Ethernet cable is connected hub/PC and router correctly. Then please
make sure the PC/hub have been power on.

Please make sure that you use parallel network cable to connect UpLink port of hub, or use
parallel network cable to connect PC. If connect normal port of hub (not UpLink port), you
must use cross-cable. Please make sure that your network cables meet the networking
requirements above.

2. Device Access and Login

I forgot the password.
1.   You have to reset the device to its factory defaults and set your initial login password
       and keep it in mind.

I cannot see or access the Login screen in the web configurator.
1.   Make sure you are using the correct IP address.
The default login address is **www.mykasda.com.**
If you changed the IP address, use the new IP address.
If you changed the IP address and have forgotten it, see the **Frequent Asked Questions** for **I
forgot the IP address for the Router**.
Make sure you are using the correct IP address.
2.   Check the hardware connections, and make sure the LEDs are behaving as
       expected.
3.   Make sure your Internet browser does not block pop-up windows.
4.   Make sure your computer is in the same subnet as the Router.
If there is a DHCP server on your network, make sure your computer is using a dynamic IP
address.
If there is no DHCP server on your network, make sure your computer's IP address is in the
same subnet as the router.

5.   Reset the device to its factory defaults and reboot it again.

My PC is unable to connect to the wireless connection.
Please make sure that all devices communicating with the device must use the same channel
(and use the same SSID). Otherwise your PC will not find the wireless Router.

3. Internet Access

My PC cannot access the Internet
First check whether PC can ping the interface Ethernet IP address of this product successfully
(default value is 192.168.1.1) by using ping application. If ping application fails, please check
the connection of Ethernet cable and check whether the states of LEDs are in gear.
If the PC uses private IP address that is set manually (non-registered legal IP address), please
check:
1.   Whether IP address of the PC gateway is legal IP address. Otherwise please use the right
      gateway, or set the PC to Obtain an IP address automatically.
2.   Please confirm the validity of DNS server appointed to the PC with operator. Otherwise
      please use the right DNS, or set the PC to Obtain an IP address automatically.
3.   Please make sure you have set the NAT rules and convert private IP address to legal IP
      address. IP address range of the PC that you specify should meet the setting range in
      NAT rules.
4.   Central Office equipment may have problem.
5.   The country or the wireless network type you selected is wrong.

My PC cannot browse Internet web page.
Please make sure DNS server appointed to the PC is correct. You can use ping application
program to test whether the PC can connect to the DNS server of the operator.

If the cause is not given above, please contact your local service provider!

Caution:

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.

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

The distance between user and products should be no less than 20cm during normal operation.

Indoor use only.