netis

netis Beacon AC1200 Gaming Router
Quick Installation Guide
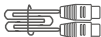
1. Package Contents

Beacon AC1200 Gaming Router
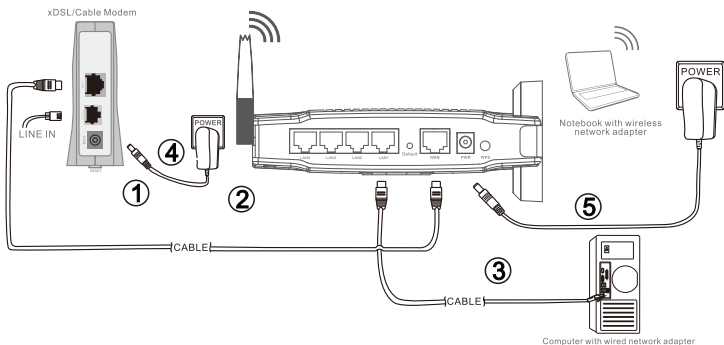
Power Adapter

Ethernet Cable

QIG

C D

2. Product Connection

2.1 Hardware Connection

① Power off your Modem.

② Connect the **WAN** port on netis Router to the Modem's **LAN** port with an Ethernet cable.

③ Connect your computer to one of the **LAN** ports on netis Router with an Ethernet cable.

④ Power on your Modem.

⑤ Plug the provided Power Adapter into the **PWR** jack of netis Router and the other end to a standard electrical socket. Then, wait for one minute.

2.2 Product Instruction

① **LAN1-LAN4 Ports:**
Connect up to 4 computers.

② **Default Button:**
If you forget your personal set up information,
please use a pin to push into the hole and
reset to the manufacture default mode.

Access address: http://netis.cc
2.4G default SSID: netis_2.4G_XXXXXX
5G default SSID: netis_5G_XXXXXX
Default wireless password: password
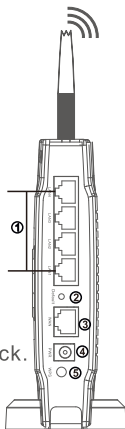(XXXXXX: Last 6 digits of LAN MAC Address)

③ **WAN Port:**
Connect to the XDSL/Ethernet/Cable modem
for broadband access.

④ **Power Jack:**
Connect the provided power adapter to the DC jack.

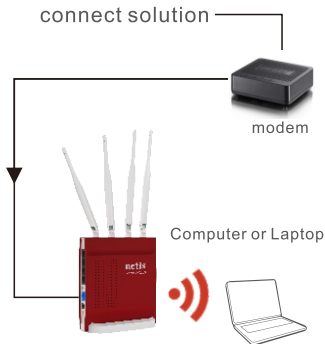⑤ **WPS Button:** (default set up is disable)
Press once to enable the WPS function.
Press twice to connect to your Modem
automatically.

3.For Gamer

3.1 Connection
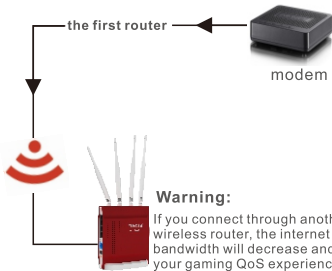
connect solution

suggest to avoid
connect solution

the first router

modem

modem

Computer or Laptop

Warning:
If you connect through another
wireless router, the internet
bandwidth will decrease and affect
your gaming QoS experience.

3.2 Installation

Step 1: Open CD.

Step 2: Insert the CD into your computer's CD-ROM drive, and double-click on **"Beacon.exe"** to install the PC application software. Next, start the gaming bandwidth controlling process.
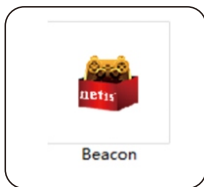
Step 3: Click **"Bandwidth Test"** button, and the speed data will show **Here**. If not, you can manually input the speed data based on the result from **www.speedtest.net**.

Step 4: Click "**Save**" button, then go to **Bandwidth Set Up** page.

Step 5: Input each of the QoS percentages that you want to assign to Gaming, Video Streaming, and others correspondingly.
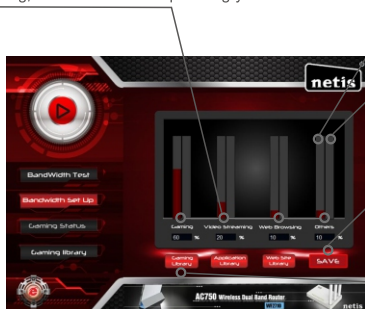
It shows the assigned QoS percents.

It shows the real-time performance of your network.

Step 6: Click "**Save**" button, then you can add games , applications and websites to their libraries.

Step 7: Click "**Gaming Library**" button, then add games to your Gaming Library.

Step 8: Input your **game name** here.

Step 9: Select your game "**exe**" file from your computer.

Step 10: Add Game.

Step 11: Click "**Save**".

Step 12: Repeat **Step 8** to **Step 11** until you finished adding all the games you would like to save in the library.

> ⚠ ***QoS is assigned to "application" , only when you enabled the game, QoS will be automatically "on".**
>
> ***Qos is not assigned to "device", if you would like to assign bandwidth to "device", please refer to "For Consumer User" link on page [4.3] in below.**

NOTE: The **Application Library** page and **Web Site Library** page follow the same procedure with that of the **Gaming Library** page, so you can add applications and websites by referring to the process between **Step 8** and **Step 12**.

4. For Consumer User

Log into our web control page
(netis.cc) through the web browser

4.1 How to Set up Internet type

WF2681

■ Status

≡ Network
  ▪ WAN
  ▪ LAN
  ▪ IPTV

Step 1: Click "**Network**" and select "**WAN**".

Step 2: Scroll down **WAN Connection Type** and choose the type as you need.

WAN Type

WAN Type : ● Wired   ○ Wireless

WAN Settings

WAN Connection Type : DHCP(Cable Modem) ▾

Save   Advanced

DHCP(Cable Modem):
The router will automatically receive the IP parameters from your ISP (internet service provider).

Static:
Enter IP address / Subnet Mask/ Default Gateway/DNS Servers given by your ISP.

PPPoE (ADSL):
Enter the User Name & Password given by your ISP.

4.2 How to Set up Wi-Fi mode and SSID/password

WF2681

■ Status

∷ Network

≡ Wireless 2.4G
  ▪ Wireless Setting

Step 1: Click "**Wireless 2.4G**" and select "**Wireless Settings**".

Step 2:
Scroll down the selections and set the mode as you need.

Wireless Settings

Wireless Status : ● Enable   ○ Disable

MAC Address : 08:10:74:00:00:09

Radio Mode : Access Point ▾

Radio Band : 802.11b+g+n ▾

SSID : netis_2.4G_000009

SSID Broadcast : ● Enable   ○ Disable

Region : US ▾

Channel : Channel 6 ▾

Channel Width : ○ 20MHz   ● 40MHz

Control Sideband : ● Lower   ○ Upper

Access Point:
The router will provide the direct wireless access for your laptops,smartphones, and tablets.

WDS:
The router will be connected to another wireless network, and your laptop can only connect to the router with an Ethernet cable.

AP+WDS:
The router will be connected to another wireless network, and your computer can connect to the router with an Ethernet cable or through Wi-Fi.

Client:
The computer connected by Ethernet could get access to a wireless network by Client mode.

Repeater:
The Repeater will extend the range of a wireless network.

AP Security Settings

For the best security of your wireless network, we strongly rec

Authentication Type, and AES or TKIP & AES as Encryption Typ

Authentication Type : WPA/WPA2-PSK ▾

Encryption Type : ○ TKIP   ○ AES   ● T

Key Mode : ○ HEX   ● ASCII

Password : password

(Please enter 8-63 ASCII characters

Save

Step 3:
Wi-Fi Name Set Up :
you can input your own desired Wi-Fi name.

Step 4:
Change Password :
You can reset your new password here.

4.3 How to Set up QoS

WF2681

- **Status**
- **Network**
- **Wireless 2.4G**
- **Wireless 5G**
- **Bandwidth Control** ○
- **Forwarding**

Step 1:
Click "**Bandwidth Control**".

Bandwidth Control Configuration

Status : ○ Enable ● Disable

Rule : Uplink Bandwidth [   ] (Kbps) (0 means no limitation.)
Downlink Bandwidth [   ] (Kbps) (0 means no limitation.)

Save

Step 2: Select "**Enable**" to open Bandwidth Control.

Step 3:
Set the total Uplink & Downlink bandwidth you want to control, then click. "**Save**".

Bandwidth Control Rule Settings ○

Description : [   ]
Status : [Enable   ▼]
Host : [All the hosts   ▼]

Guaranteed Bandwidth : Uplink Bandwidth [   ] (Kbps) (0 means no limitation.)
Downlink Bandwidth [   ] (Kbps) (0 means no limitation.)

Restricted Bandwidth : Uplink Bandwidth [   ] (Kbps) (0 means no limitation.)
Downlink Bandwidth [   ] (Kbps) (0 means no limitation.)

Add

Step 4: Set the bandwidth control rule for different hosts, then click "**Add**".

Bandwidth Control List

ID	Description	Status	IP Address Range	Guaranteed Bandwidth		Restricted Bandwidth	
				Uplink	Downlink	Uplink	Downlink

Items show in every single page 10 Apply   0 ▼ Current 0 page

Delete All

Description:
A description for the rule.
Status:
To enable or disable bandwidth control rule.
Host:
To choose what kind of host to set bandwidth control rule, include
 "**All the hosts**", "**Specific host**", "**Host's subnet**", "**Host's segment**".
Guaranteed Bandwidth
Uplink Bandwidth: Minimum uplink speed the host can share.
Downlink Bandwidth: Minimum downlink speed the host can share.
**Restricted Bandwidth**
Uplink Bandwidth: Maximum uplink speed the host can share.
Downlink Bandwidth: Maximum downlink speed the host can share.

5. Troubleshooting

Q How do I restore my netis Router's configuration to its default settings?

A With the router powered on, use a pin to press and hold the **Default** button on the rear panel for 8 to 10 seconds before releasing it. The router will reboot and all configurations are back to factory default.

Default
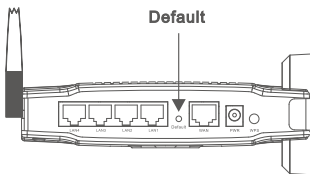
Q What can I do if my Internet cannot be accessed?

A 1) Check to verify the hardware connections are correct.
   Please refer to the **"Hardware Connection"** step.
2) Login to netis Router's web management page and ensure that you set the correct Internet Connection Type.
   For cable modem users, please configure **"MAC Clone"** additionally.

   On the left-side menu, left-click on [⚙ Advanced] > **"Network"** > **"WAN"**. And in the middle page, left-click on **"Advanced"** > **"MAC Clone"** and then **"Save"** it.

| MAC Address : | 08:10:76:3a:70:fb | MAC Clone | Default MAC |

3) Reboot the modem first and then netis Router. Wait for one minute before you check the Internet again.
4) If Internet access is not available, please connect your computer directly to your modem and try the Internet again.
   If the Internet is still not working, please contact your ISP for further help.

Appendix A: 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.

FCC Radiation Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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!
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
The operation frequency of the device in the 5150-5250 MHz band is for indoor use only.

Appendix B: Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada RSS-210. Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio RSS-210.
L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
Cet émetteur ne doit pas être Co-placé ou ne fonctionner en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.