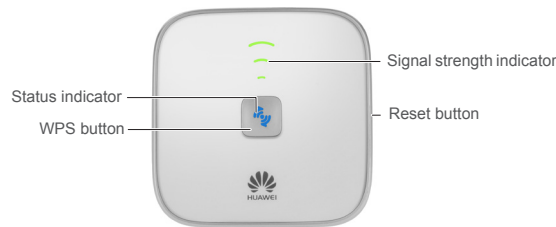


WS322 300Mbps Mini Wireless Router Quick Start Guide



Huawei Technologies Co., Ltd.

1 Hardware Specifications



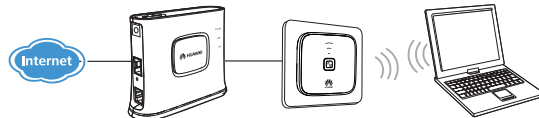
Figures in this guide are provided for your reference only. The actual product may vary.

Item	Status	Description
Status indicator	Off	The WS322 is powered off or faulty.
	Blinking	Blinking red: the WS322 is powering on. Blinking blue: the WS322 is connecting to the network.
	Steady on	Steady red: the WS322 is working properly but is not connected to any network. Steady blue: the WS322 is connected to the network.
Signal strength indicator	Off	The WS322 is not connected to any network.
	Blinking	The WS322 is changing its working mode.
WPS button	Steady on	The WS322 is connected to a network. The lightened indicator bars indicates the network signal strength. Three bars mean the network signals are strong, while one bar means the network signals are weak.
	/	Quickly sets up a wireless connection or changes WS322's working mode.
Reset button	/	Restores the WS322 to its factory settings. When the WS322 is powered on, use a sharp object to push and hold this button for 1 second or more to restore the WS322 to its default settings.

2 Working Modes

WiFi Router Mode That Helps You Establish a Private Access Point

In this mode, the WS322 is connected to the Internet through its Ethernet port and works as a WiFi access point in a home, providing Internet access for wireless clients, such as phones and computers. To set up a wireless connection, press and hold the WS322's WPS button more than 1 second and less than 2 seconds, and press the wireless client's WPS button within 2 minutes. When the connection is set up, the WS322's status indicator turns from blinking to steady on. To change WS322 into WiFi Router mode, press and hold the WS322's WPS button more than 4 second and less than 6 seconds. Then release the WPS button when you see a signal strength indicator blinking. The WS322 will restart and change into WiFi Router mode.



WiFi Repeater Mode That Expands the WLAN Coverage

In this mode, the WS322 is wirelessly connected to the Internet, providing Internet access for wireless clients, such as phones and computers. This mode is used to expand the existing access point or router's signal coverage. To set up a wireless connection, press and hold the WS322's WPS button more than 1 second and less than 2 seconds, and press the access point device's WPS button within 2 minutes. When the connection is set up, the WS322's status indicator turns from blinking to steady on. To change WS322 into WiFi Repeater mode, press and hold the WS322's WPS button more than 6 second and less than 8 seconds. Then release the WPS button when you see two signal strength indicators blinking. The WS322 will restart and change into WiFi Repeater mode.



WiFi Client Mode That Provides Internet Access for Devices Without the WLAN Function

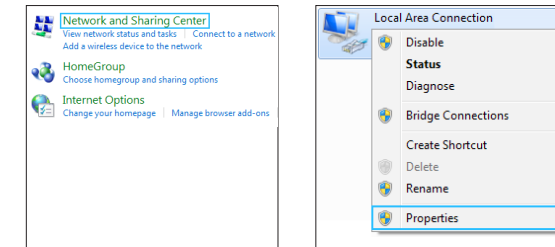
In this mode, the WS322 is connected to a client, such as set-top box (STB) or computer, through its Ethernet port, providing the client with wireless access to a wireless access point or router. To set up a wireless connection, press and hold the WS322's WPS button more than 1 second and less than 2 seconds, and press the access point device's WPS button within 2 minutes. When the connection is set up, the WS322's status indicator turns from blinking to steady on. To change WS322 into WiFi Client mode, press and hold the WS322's WPS button more than 8 second and less than 10 seconds. Then release the WPS button when you see three signal strength indicators blinking. The WS322 will restart and change into WiFi Client mode.



3 Setting the Computer's IP Address

Procedure on Computers Running Windows 7

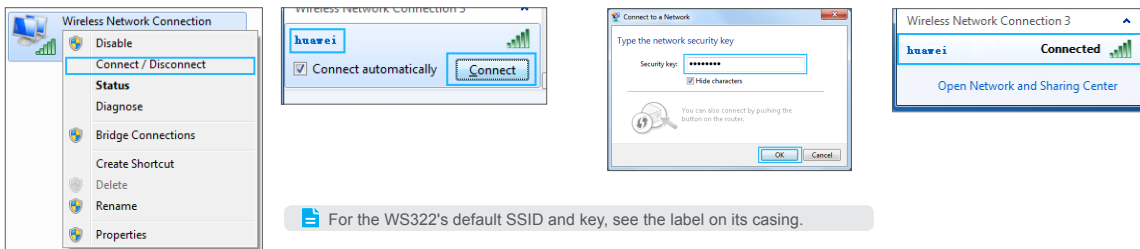
1. Choose **Start > Control Panel > Network and Internet > Network and Sharing Center**.
2. Choose **Change adapter settings > Local Area Connection**. Right-click **Local Area Connection**, and choose **Properties**.



4 Setting Up a Wireless Connection

Procedure on Computers Running Windows 7

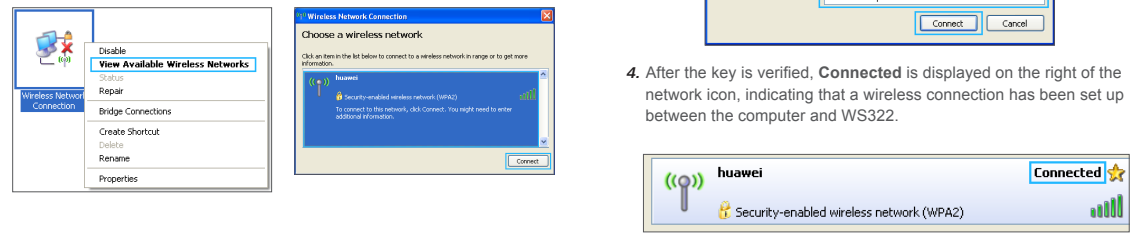
1. Choose **Start > Control Panel > Network and Internet > Network and Sharing Center > Change adapter settings**. Right-click **Local Area Connection**, and choose **Connect/Disconnect**.
2. From the wireless network list, choose the WS322's SSID, and click **Connect**.
3. Enter the key, and click **OK**.
4. After the key is verified, **Connected** is displayed on the right of the network icon, indicating that the WS322 and computer are wirelessly connected.



For the WS322's default SSID and key, see the label on its casing.

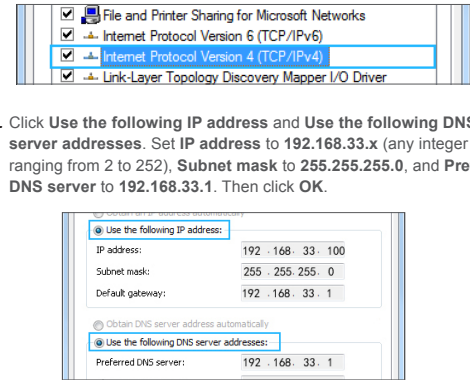
Procedure on Computers Running Windows XP

1. Choose **Start > Control Panel > Network and Internet Connections > Network Connections**. Right-click **Wireless Network Connection**, and choose **View Available Wireless Networks**.
2. From the wireless network list, choose the WS322's SSID, and click **Connect**.
3. Enter the key and click **OK**.
4. After the key is verified, **Connected** is displayed on the right of the network icon, indicating that a wireless connection has been set up between the computer and WS322.



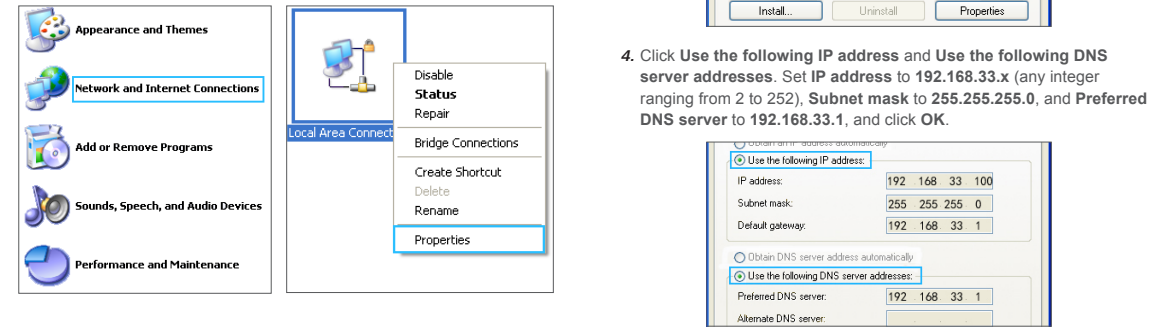
Procedure on Computers Running Windows 7

3. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.
4. Click **Use the following IP address** and **Use the following DNS server addresses**. Set IP address to 192.168.33.x (any integer ranging from 2 to 252), Subnet mask to 255.255.255.0, and Preferred DNS server to 192.168.33.1. Then click **OK**.



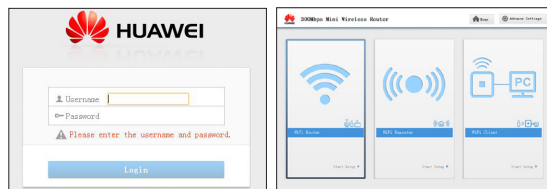
Procedure on Computers Running Windows XP

1. Choose **Start > Control Panel > Network and Internet Connections**.
2. Choose **Network Connections > Local Area Connection**. Right-click **Local Area Connection**, and choose **Properties**.
3. Double-click **Internet Protocol (TCP/IP)**.
4. Click **Use the following IP address** and **Use the following DNS server addresses**. Set IP address to 192.168.33.x (any integer ranging from 2 to 252), Subnet mask to 255.255.255.0, and Preferred DNS server to 192.168.33.1, and click **OK**.



5 Quickly Configuring the WS322

1. Launch a browser. In the address box, enter **media.router** or **192.168.33.1**, and press **Enter**. Then enter your user name and password.
2. Click the working mode you want.



The default user name and password are both **admin**. To protect your device from unauthorized access, change your user name and password the first time you log in.

3. Set the wireless parameters for the mode you selected.

3.1 WiFi Router Mode

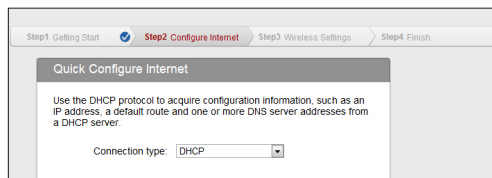
3.1.1 Click WiFi Router.



3.1.2 Click Next.

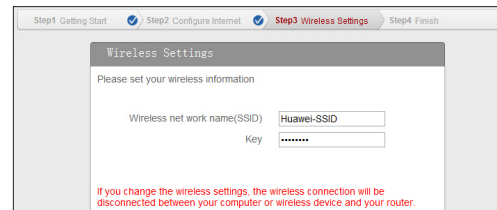


3.1.3 Select the desired network connection type, and click Next.



Application Scenario	Connection Type
The user name and password are provided by your Internet service provider (ISP).	PPPoE
The user name and password are provided by your ISP. Set up a dial-up connection on one computer only.	Bridge
Certain parameters, such as the static IP address and DNS server address, are provided by your ISP.	IP Static
No parameters are provided by your ISP. The IP address is automatically assigned by the ISP.	DHCP

3.1.4 Set the SSID and password for the access point, and click Next.



For the following procedure, see chapter 6 "Changing the IP address."

3.2 WiFi Repeater Mode

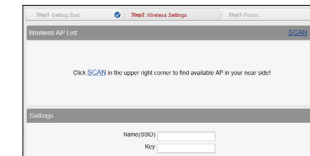
3.2.1 Click WiFi Repeater.



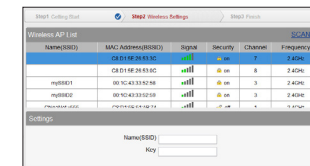
3.2.2 Click Next.



3.2.3 Click SCAN to search for networks in range.



3.2.4 Select the network you want to connect, enter the key, and click Next.



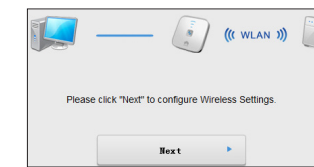
It is recommended that you use this mode when the signal strength is two bars or better.

3.3 WiFi Client Mode

3.3.1 Click WiFi Client.



3.3.2 Click Next.



6 Setting the IP Address of the Device Connecting to WS322's WLAN

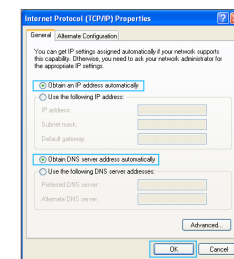
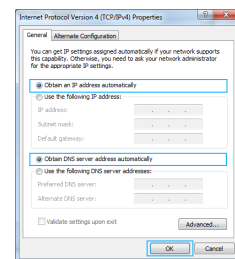
This chapter use computers running Windows 7 and Windows XP to illustrate how to set the IP address of the device connecting to the WS322's WLAN.

Procedure on Computers Running Windows 7

Click **Obtain an IP address automatically** and **Obtain DNS address automatically**, and click **OK**.

Procedure on Computers Running Windows XP

Click **Obtain an IP address automatically** and **Obtain DNS address automatically**, and click **OK**.

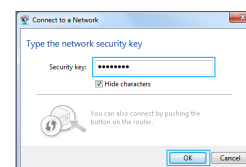
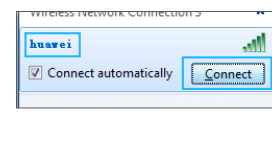


7 Connecting a Device to the WS322 WLAN

This chapter use computers running Windows 7 and Windows XP to illustrate how to connect a device to the WS322's WLAN.

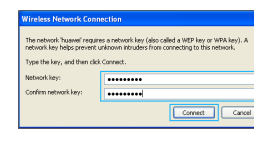
Procedure on Computers Running Windows 7

1. From the wireless network list, click the SSID set when you configured the WS322, and click **Connect**.
2. If you have set a key for the wireless network when you configured the WS322, enter the key when prompted, and click **OK**.



Procedure on Computers Running Windows XP

1. From the wireless network list, double-click the SSID set when you configured the router.
2. If you have set a key for the wireless network when you configured the router, enter the key when prompted, and click **Connect**.



This operation applies to WiFi router and WiFi repeater modes only.

8 FAQs

What can I do if I cannot access the Internet through a wireless network adapter?

1. Check whether the WS323's WLAN indicator is on. If the WLAN indicator is off, the WLAN function of the router is disabled. Log in to the web management page, choose **Basic > WLAN**, and select **Enable WLAN**.
2. Check that the WLAN function is enabled on the computer. A computer running Windows 7 is used as an example: Right-click **My Computer**, and choose **Manage > Services and Applications > Services**, and check whether **WLAN AutoConfig** is **Started**. If not, right-click **WLAN AutoConfig**, and choose **Start**.

- > If the wireless network adapter driver is installed and the network adapter is enabled, a green icon is displayed next to it.
- > If the wireless network adapter is disabled, a red X is displayed next to it. To enable the network adapter, right-click it and choose **Enable**.
- > If the network adapter driver is not properly installed, a question mark or exclamation mark is displayed. In this case, re-install the network adapter driver.
- > If no network adapter is found, right-click any icon, and choose **Scan**

for hardware changes.

3. Place the WS323 close to the computer, and make sure that there are no obstacles, such as concrete or wooden walls, between them.
4. Go to the wireless network connection list to check whether the computer is connected to the WLAN set up by the WS323.
5. Try to access multiple websites to check whether the WS323 can access other websites.

If the WS323 cannot access other websites, restore the default settings of the WS323. If the problem persists, contact your network service provider.

What can I do if I cannot access the WS323 configuration page?

1. Check that the cables, such as the power cable and telephone cable, are securely connected, and that the LAN port's indicator is on.
2. Check that the user name and password to access the web management page are correct.
3. Check whether the computer's IP address is **192.168.33.x**. (x is any integer from 2 to 254.) If not, see chapter "Setting the Computer's IP Address" to set the IP address. If the computer cannot properly obtain an IP address, restart the computer.

4. Launch the Internet Explorer, choose **Tools > Internet Options > Connections > LAN settings**, and ensure that none of the check boxes are selected.

If the problem persists, restore the WS323 to its factory settings.

What are the meanings of the WS323 signal indicator?

The WS323 signal indicator only works in Wi-Fi repeater and Wi-Fi client modes.

The number of lightened bars shows the network signal strength. Three bars mean the network signals are strong, two bars mean the network signals are good, and one bar means the network signals are weak. It is recommended that you use the WS323 in a network where the signal strength is strong or good.

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1 Warnings and Precautions

To use the device properly and safely, read these warnings and precautions carefully and strictly observe them during operation. Unless otherwise specified, the term "device" refers to the device and its accessories.

Basic Requirements

- > During storage, transportation, and operation of the device, keep it dry and prevent it from colliding with other objects.
- > Do not dismantle the device. In case of any fault, contact an authorized service center for assistance or repair.
- > Without authorization, no organization or individual can change the mechanical, safety, or performance design of the device.
- > When using the device, observe all applicable laws and regulations and respect the legal rights of other people.

Environmental Requirements for Using the Device

- > Before connecting and disconnecting cables, stop using the device, and then disconnect it from the power supply. Ensure that your hands are dry during operation.
- > Keep the device far from sources of heat and fire, such as a heater or a candle.

- > Keep the device far from electronic appliances that generate strong magnetic or electric fields, such as a microwave oven or a refrigerator.
- > Place the device on a stable surface.
- > Place the device in a cool and well-ventilated indoor area. Do not expose the device to direct sunlight.
- > Use the device in an area with a temperature ranging from 0° C to 40° C.
- > Do not place any object (such as a candle or a water container) on the device. If any foreign object or liquid enters the device, stop using the device immediately, power it off, remove all the cables connected to it, and then contact an authorized service center.
- > During thunderstorms, power off the device, and then remove all the cables connected to it to prevent it from getting damaged due to lightning strikes.

Precautions for Using Wireless Devices

- > When using the device, ensure that the antenna of the device is at least 20 cm away from all persons.
- > When using the device, ensure that the antenna of the device is at

least 20 cm away from all persons. When using the handset of the device, however, you can use it close to your body.

- > The radio waves generated by the device may interfere with the operation of electronic medical devices. If you are using any electrical medical device, contact its manufacturer for the restrictions on the use of the device.
- > Do not take the device into operating rooms, intensive care units (ICUs), or coronary care units (CCUs).

Areas with Inflammables and Explosives

- > Do not use the device where inflammables or explosives are stored, for example, in a gas station, oil depot, or chemical plant. Otherwise, explosions or fires may occur. In addition, follow the instructions indicated in text or symbols.
- > Do not store or transport the device in the same box as inflammable liquids, gases, or explosives.

Accessory Requirements

- > Use only the accessories supplied or authorized by the device manufacturer. Otherwise, the performance of the device may get

affected, the warranty for the device or the laws and regulations related to telecommunications terminals may become null and void, or an injury may occur.

- > Do not use the power adapter if its cable is damaged. Otherwise, electric shocks or fires may occur.
- > Ensure that the power adapter meets the specifications indicated on the device nameplate.
- > For pluggable device, the socket-outlet shall be installed near the device and shall be easily accessible.

Safety of Children

Keep the device and its accessories out of the reach of children. Otherwise, they may damage the device and its accessories by mistake, or they may swallow the small components of the device, causing suffocation or other dangerous situations.


Maintenance

- > If the device is not used for a long time, power it off, and then remove all the cables connected to it.
- > If any exception occurs, for example, if the device emits any smoke

or unusual sound or smell, stop using the device immediately, power it off, remove all the cables connected to it, and then contact an authorized service center.

- > If the device screen is broken by colliding with hard objects, do not touch or try to remove the broken part. In this case, stop using the device immediately, and then contact an authorized service center in time.

Disposal and Recycling Information

 This symbol (or without a solid bar) on the device, and/or on its packaging, and on its batteries where included, indicates that the device including its electrical accessories (e.g. headset, adapter, cable) and the batteries should not be disposed of as normal household garbage. These items should not be disposed as unsorted municipal waste and should be handed over to a certified collection point for recycling or proper disposal at the end of their life.

For more detailed information about the recycling of the device or batteries, please contact your local city office, the household waste disposal service, or the retail store where you purchased it/them.

Disposal of the device and batteries if included is subject to WEEE Directive

Recast (Directive 2012/19/EU) and Battery Directive (Directive 2006/66/EC). The purpose for separating WEEE and batteries from other waste is to minimize the potential environmental impacts on human health of any hazardous substances that may be present.

Reduction of Hazardous Substances

This device is compliant with the REACH Regulation [Regulation (EC) No 1907/2006] and RoHS Directive Recast (Directive 2011/65/EU). Batteries where included are compliant with Battery Directive (Directive 2006/66/EC). For more information about the REACH and RoHS compliance of the device, please visit the Web site www.huaweidevice.com/certification. You are recommended to visit the Web site regularly for up-to-date information.

EU Regulatory Conformance

This device should be installed and operated with a minimum distance of 20 cm between the antenna and all persons.

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Website: <http://www.huawei.com>

文档版本: 96721632_01

YOUR NAME.
Address/Postal Code.
Telephone.
Product Type.
Product Serial Number.
Purchase Date.
Invoice Number.
Dealer Name.
Dealer's Address/Telephone

Preserve well. No reissue.
Dealer's Seal:



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CE0682

Notice: Observe the national local regulations in the location where the device is to be used. This device may be restricted for use in some or all member states of the European Union (EU).
Norway: This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund.

[Federal Communications Commission \(FCC\) Statement](#)

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.
This device should be installed and operated with a minimum distance of 20

cm between the antenna and all persons.
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.

Warning: Changes or modifications made to this device not expressly approved by Huawei Technologies Co., Ltd. may void the FCC authorization to operate this device.

[FCC Radiation Exposure Statement](#)

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.


2 Copyright

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[Import and Export Regulations](#)

Customers shall comply with all applicable export or import laws and regulations and will obtain all necessary governmental permits and licenses in order to export, re-export or import the product mentioned in this manual including the software and technical data therein.

3 Warranty Card

Thank you for choosing Huawei Technologies Co., Ltd. — a leading telecom solution provider. To get better services, please read this warranty card carefully, fill in the required information and preserve this card in good condition.

[Limited Warranty](#)

Subject to the exclusions contained below, Huawei Technologies Co., Ltd. (hereinafter referred to as Huawei) warrants its access terminals ("Products") to be free from defects in materials and workmanship under normal consumer usage for one year from the date of purchase of the product ("Warranty period"). During the warranty period, a Huawei authorized service partner shall remedy defects in materials and workmanship free of charge.

[Special Notice:](#)

- (1) The warranty card shall be applicable only after being stamped by the dealer.
- (2) The warranty card must be preserved in good condition and free of any scratch or alteration.
- (3) To claim such service for defects that are not included in the following

exclusion terms, the warranty card and the invoice that records the product serial number shall be presented to a Huawei authorized service partner.

[Exclusions:](#)

In any of the following cases, the warranty card becomes unenforceable or inapplicable without prior notice:

- (1) The defects are caused by improper handling in transportation and assembly.
- (2) The defects are caused by the fact that the product is dismantled or altered by anyone that is not from a Huawei authorized service partner.
- (3) The defects are caused by the fact that the product is used in a harsh environment that is not suitable for the operation of the product.
- (4) The defects are caused by any force majeure including but not limited to fire, earthquake, lightning and tsunami.
- (5) The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
- (6) The normal wear and tear, including but not limited to the normal wear and tear of the shell and the power module, shall not be covered by the limited warranty.
- (7) The warranty card is altered or illegible, or the product serial number

recorded on the warranty card is inconsistent with the actual one imprinted or labeled on the product.

(8) The product nameplate, serial number barcode, or seal label has been removed, erased, defaced, or is illegible.

In any case that is not covered by this limited warranty or should the warranty expire, Huawei shall charge for the service(s) claimed for the products if the product is still remediable.
Huawei preserves the right for interpretation of this limited warranty.