

ZTE ZXHN H196A

ZTE Wi-Fi 5 ZXHN H196A Mesh Router 2 Pack User Manual

Model: ZXHN H196A

1. INTRODUCTION

The ZTE ZXHN H196A Mesh Router 2 Pack provides a high-performance, dual-band Wi-Fi 5 (802.11ac) solution designed to deliver seamless and reliable internet connectivity throughout your home. With combined speeds up to 1200Mbps and Gigabit Ethernet ports, this system is ideal for demanding applications such as HD video streaming and online gaming. The H196A integrates with NetSphere technology to create a unified whole-home Wi-Fi network, ensuring consistent coverage and a single SSID for effortless roaming.

2. SAFETY INFORMATION

Please read and follow all safety instructions carefully to prevent injury or damage to the device.

- Do not expose the device to water or moisture.
- Do not open or attempt to repair the device yourself. Refer all servicing to qualified personnel.
- Use only the power adapter provided with the device.
- Place the device in a well-ventilated area, away from direct sunlight and heat sources.
- Keep the device away from children and pets.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 2 x ZTE ZXHN H196A Mesh Routers
- 2 x Power Adapters
- 1 x Ethernet Cable
- 1 x Quick Start Guide

4. PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of your ZTE ZXHN H196A Mesh Router.



Figure 4.1: Two ZTE ZXHN H196A Mesh Routers, front view. These compact, white devices feature the ZTE logo and a vertical LED indicator on the front.



Figure 4.2: Front view of a single ZTE ZXHN H196A Mesh Router. This image highlights the ZTE branding at the top and the prominent blue LED indicator light at the bottom center.



Figure 4.3: Rear view of a ZTE ZXHN H196A Mesh Router. This perspective shows the ventilation grilles at the top and the connectivity ports at the bottom: a power input, a WAN port, and two LAN ports.



Figure 4.4: Close-up rear view of a ZTE ZXHN H196A Mesh Router. This detailed shot clearly labels the Power input, WAN port, two LAN ports, and the recessed Reset button.

LED Indicators

- **Solid Blue:** Internet connection is active and working normally.
- **Blinking Blue:** Device is starting up or connecting to the internet.
- **Solid Red:** No internet connection or a system error.
- **Off:** Device is powered off.

Ports and Buttons

- **Power Port:** Connects to the power adapter.
- **WAN Port:** Connects to your modem or main internet source.
- **LAN Ports (x2):** Connects to wired devices like computers, gaming consoles, or smart TVs.
- **Reset Button:** Used to restore factory default settings. Press and hold for 5-10 seconds while the device is powered on.

5. SETUP

5.1 Initial Router Placement

For optimal performance, place your primary mesh router in a central location in your home, away from obstructions, large metal objects, and other electronic devices that may cause interference.

5.2 Connecting the Primary Router

1. Connect one end of the provided Ethernet cable to the WAN port of one ZTE ZXHN H196A router.
2. Connect the other end of the Ethernet cable to a LAN port on your existing modem or optical network terminal (ONT).
3. Connect the power adapter to the Power port of the router and plug it into an electrical outlet.
4. Wait for the LED indicator on the router to turn solid blue, indicating a successful internet connection.

5.3 Setting Up the Mesh Network (Secondary Router)

The ZTE ZXHN H196A routers are designed to automatically form a mesh network. Follow these steps to add the second router:

1. Place the second ZTE ZXHN H196A router in an area where you need extended Wi-Fi coverage, ideally within range of the primary router.
2. Connect the power adapter to the Power port of the second router and plug it into an electrical outlet.
3. Wait for the LED indicator on the second router to turn solid blue. This indicates it has successfully connected to the primary router and joined the mesh network.
4. If the LED does not turn solid blue, try moving the secondary router closer to the primary unit or refer to the troubleshooting section.

6. OPERATING THE ROUTER

6.1 Connecting Devices to Wi-Fi

Locate the Wi-Fi network name (SSID) and password printed on the label at the bottom of your router. Use these credentials to connect your wireless devices (smartphones, tablets, laptops) to the mesh network.

6.2 Connecting Wired Devices

Use an Ethernet cable to connect devices such as desktop computers, gaming consoles, or smart TVs to the LAN ports on either of your mesh routers.

6.3 Accessing Router Settings (Web Interface)

To manage advanced settings, you can access the router's web interface:

1. Ensure your device is connected to the router's Wi-Fi or via an Ethernet cable.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Type the default IP address (usually 192.168.1.1 or 192.168.0.1) into the address bar and press Enter. Refer to the router's label for the exact IP address.
4. Enter the default username and password when prompted. These are typically found on the router's label.
5. Once logged in, you can configure settings such as Wi-Fi name (SSID), password, guest networks, and parental controls.

6.4 Dual-Band Operation and Access Point Mode

The ZXHN H196A operates as a dual-band router, supporting both 2.4 GHz and 5 GHz Wi-Fi frequencies for optimal performance and compatibility. It also supports Access Point Mode, allowing it to extend an existing wired network wirelessly.

7. MAINTENANCE

7.1 Firmware Updates

Periodically check for firmware updates through the router's web interface. Firmware updates can improve performance, add new features, and enhance security.

7.2 Cleaning

Clean the router's exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation holes are free from dust and debris.

7.3 Resetting the Router

If you encounter persistent issues or wish to restore all settings to their factory defaults, you can perform a factory reset:

1. With the router powered on, use a paperclip or a thin object to press and hold the recessed Reset button on the back of the router for approximately 5-10 seconds.
2. Release the button when the LED indicator blinks rapidly or changes color.
3. The router will restart with factory default settings. You will need to reconfigure your internet connection and Wi-Fi settings.

8. TROUBLESHOOTING

8.1 No Internet Connection (LED is Red)

- Check if the Ethernet cable from your modem is securely connected to the WAN port of the primary router.
- Ensure your modem is powered on and working correctly.
- Restart both your modem and the router by unplugging them from power for 30 seconds and then plugging them back in.
- Contact your Internet Service Provider (ISP) to confirm there are no service outages in your area.

8.2 Slow Wi-Fi Speed

- Ensure your devices are connected to the 5 GHz band if they support it, as it offers faster speeds.
- Relocate the routers to minimize interference from other electronic devices or physical obstructions.
- Check for any background applications or devices consuming significant bandwidth.
- Perform a speed test to verify your internet speed from your ISP.

8.3 Devices Cannot Connect to Wi-Fi

- Verify that you are entering the correct Wi-Fi password.
- Ensure the router's Wi-Fi is enabled (check via the web interface).
- Restart the router and the device you are trying to connect.
- If the issue persists, try resetting the router to factory defaults (see Section 7.3).

9. SPECIFICATIONS

Feature	Description
Brand	ZTE
Model	ZXHN H196A
Color	White
Included Components	2 Routers
Special Features	Access Point Mode, Dual-band
Product Weight	800 g
Package Dimensions	5 x 5 x 5 cm
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11ac
Compatible Devices	Notebook, Tablet, Smartphone

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included in your product package or visit the official ZTE website. You can also contact ZTE customer service for assistance with product setup, troubleshooting, and general inquiries.

Please retain your proof of purchase for warranty claims.



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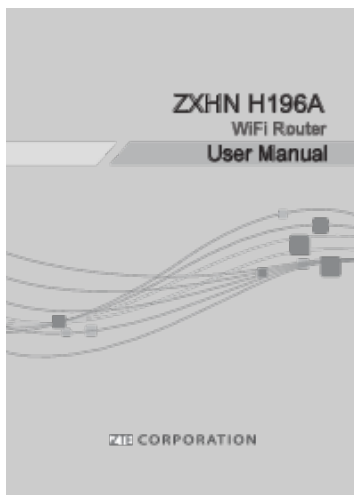
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[ZXHN H196A WiFi Router User Manual](#)

User manual for the ZTE ZXHN H196A WiFi Router, covering safety precautions, overview, product specifications, package check, installation preparation, troubleshooting, and FCC statements.
lang:en score:43 filesize: 490.73 K page_count: 12 document date: 2020-09-25



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lang:pt score:33 filesize: 1.07 M page_count: 8 document date: 2021-05-27

RF_160_Issue 02

Declaration of Authorization

We,
Name: ZTE Corporation
Address: ZTE Plaza, Hi-Tech Park, Nanshan District,
City: Shenzhen, Guangdong,
Country: P.R.China

Declare that:
Name Representative of agent: Mr. Riley Xie
Agent Company name: BTL Inc.
Address: No. 29, Jintang Road, Tangchen Industry Park, Pudong New Area
City: Shanghai
Country: China

is authorized to apply for Certification and signing related documents of the following product(s),
including 731 form(s):
Product description: WiFi Router
Type designation: ZXHN H196A
Trademark: ZTE
FCC ID: Q78-ZXHNH196AV9

on our behalf:
Date: 2020-09-24
City: Shenzhen
Name: Yuming Xie
Function: Product Certification Manager
Signature: 

Notes:
(1) Required for FCC application
(2) For FCC it is not the Online Code Taster on the authorized agent.

[pdf] Decleration of Conformity

Declaration of Authorization hbreevoort POA Letter ZTE Corporation ZXHNH196AV9 WiFi Router Q78 Q78ZXHNH196AV9 zxhnh196av9

RF_160, Issue 02 Declaration of Authorization We Name: ZTE Corporation Address: ZTE Plaza, Hi-Te ... the following product s , including 731 form s : Product description: WiFi Router Type designation: **ZXHN H196A** Trademark: ZTE FCC ID: Q78-ZXHNH196AV9 on our behalf. Date: 2020-09-24 City: Shenzhen Na... lang:en score:29 filesize: 72.29 K page_count: 1 document date: 2020-09-24

ZTE Corporation

Ad Hoc Mode Declaration


Date: 2020-09-23

We, the undersigned company
Company Name: ZTE Corporation
Address: ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China

Declare that:
Product description: WiFi Router
Type designation: ZXHN H196A
Brand: ZTE
FCC ID: Q78-ZXHNH196AV9

1. The EUT doesn't have Ad Hoc Mode function on "non US frequencies" (902-11 GHz Ad Hoc Mode is not supported even on US SF 8 frequencies (US 25-15.35 MHz, 47-57.25 MHz)).
2. In addition, the product meets all other requirements specified in Part 15E Section 15.407 and no configuration controls are provided to change the frequency of operations outside the grant of certification for US operations.
3. Only channels 1-11 will be used in USA. Country code selection is disabled.

If you have any questions regarding the authorization, please do not hesitate to contact us.
Thank you.

Sincerely,
Signature: 

Name: Yuming Xie
Tel: +86-755-26777740
Email: xie.yuming@zte.com.cn

[pdf] Decleration of Conformity

Declaration of Authorization hbreevoort Ad Hoc letter ZTE Corporation ZXHNH196AV9 WiFi Router Q78 Q78ZXHNH196AV9 zxhnh196av9

ZTE Corporation Date: 2020-09-23 Ad Hoc Mode Declaration We, the undersigned company Company Name: ZTE Corporation Address: ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China Declare that: Product description: WiFi Router Type designation: **ZXHN H196A** Brand: ZTE FCC ID: Q78-... lang:en score:29 filesize: 56.21 K page_count: 1 document date: 2020-09-24

BTL

TECHNICAL COMPLIANCE STATEMENT


This is to certify that the product listed in follows was (were) tested in the BTL EMC Laboratory to comply with below FCC official limits.


Equipment: WiFi Router
Brand Name: ZTE
Model Name: ZXHN H196A
Applicant: ZTE Corporation
Address: ZTE Plaza, Keji Road South, Hi-Tech Industry Park Nanshan District, Shenzhen, Guangdong, P.R. China

Standards: FCC CFR Title 47 Part 15, Subpart B, Class B
ANSI C63.4-2014


Report(s): BTL-FCCS-1-20090621

The test data, data evaluation, and equipment configuration contained in our test report(s) (below will, items) obtained utilizing the test procedures, test instruments, test sites that has been accredited according to the ISO/IEC 17025 quality management standard and technical standards. The test data contained in the referenced test report relate only to the EUT sample(s) and item(s) tested.


Ryan Wang
Authorized Signatory



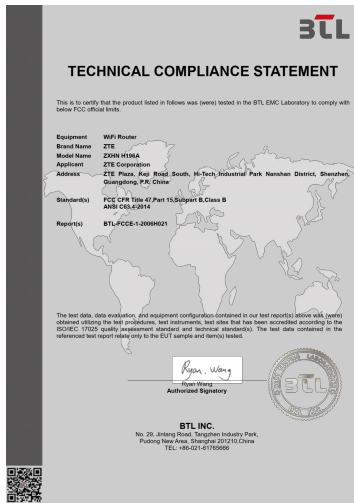
BTL INC.
No. 29, Jintang Road, Tangchen Industry Park,
Pudong New Area, Shanghai 201210, China
TEL: +86-201-4510060



[pdf] Test Report

158 BTL SDoC Letter ZTE Corporation ZXHNH196AV9 WiFi Router Q78 Q78ZXHNH196AV9 zxhnh196av9

TECHNICAL COMPLIANCE STATEMENT This is to certify that the product listed in follows was were tested in the BTL EMC Laboratory to comply with below FCC official limits. Equipment Brand Name Model Name Applicant Address WiFi Router ZTE **ZXHN H196A** ZTE Corporation ZTE Plaza, Keji Road South, Hi-Te... lang:en score:29 filesize: 777.08 K page_count: 1 document date: 2020-09-30



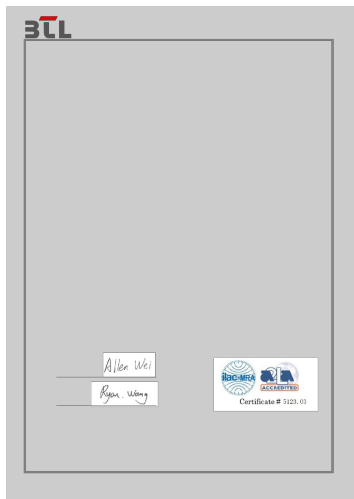
[\[pdf\]](#) Test Report

158 BTL SDoc Letter ZTE Corporation ZXHNNH196AV9 WiFi Router Q78 Q78ZXHNNH196AV9

zxhnh196av9

TECHNICAL COMPLIANCE STATEMENT This is to certify that the product listed in follows was were tested in the BTL EMC Laboratory to comply with below FCC official limits. Equipment Brand Name Model Name Applicant Address WiFi Router ZTE **ZXHN H196A** ZTE Corporation ZTE Plaza, Keji Road South, Hi-Te...

lang:en score:29 filesize: 777.08 K page_count: 1 document date: 2020-09-30



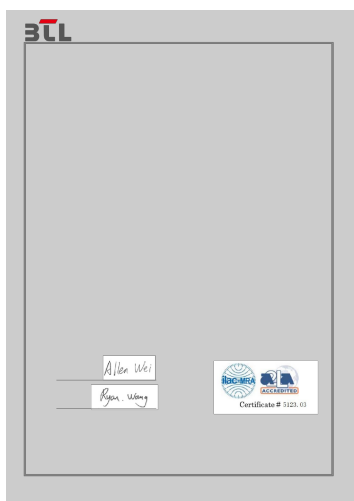
[\[pdf\]](#) Test Report SAR Rating

Measurement Report Kent RF Exp ZTE Corporation ZXHNNH196AV9 WiFi Router Q78

Q78ZXHNNH196AV9 zxhnh196av9

Report No.: BTL-FCCP-4-2006H021 FCC RF EXPOSURE REPORT FCC ID: Q78-ZXHNNH196AV9 Project No. Equipm ... t Date of Test Issued Date Report Version Test Sample Standard s : 2006H021 : WiFi Router : ZTE : **ZXHN H196A** : N/A : ZTE Corporation : ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Dis...

lang:en score:28 filesize: 135.9 K page_count: 3 document date: 2020-09-30



[\[pdf\]](#) Test Report SAR Rating

Measurement Report Kent RF Exp ZTE Corporation ZXHNNH196AV9 WiFi Router Q78

Q78ZXHNNH196AV9 zxhnh196av9

Report No.: BTL-FCCP-4-2006H021 FCC RF EXPOSURE REPORT FCC ID: Q78-ZXHNNH196AV9 Project No. Equipm ... t Date of Test Issued Date Report Version Test Sample Standard s : 2006H021 : WiFi Router : ZTE : **ZXHN H196A** : N/A : ZTE Corporation : ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Dis...

lang:en score:28 filesize: 135.9 K page_count: 3 document date: 2020-09-30



[\[pdf\]](#) Test Report

Measurement Report BTL INC TR WLAN 2 4G ZTE Corporation ZXHNNH196AV9 WiFi Router Q78
Q78ZXHNNH196AV9 zxhnh196av9

Report No.: BTL-FCCP-1-2006H021 FCC Radio Test Report FCC ID: Q78-
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concerns: Original Grant : 2006H021 : WiFi Router : ZTE : **ZXHN H196A** : N/A : ZTE
Corporation : ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan Dis...
lang:en **score:21** filesize: 5.22 M page_count: 109 document date: 2020-09-30