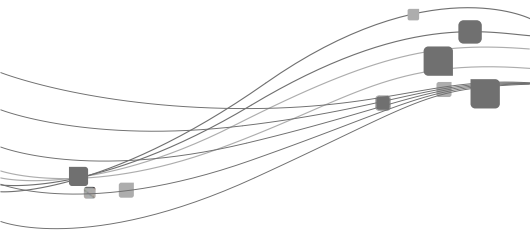


ZXHN H198A

Home Gateway

User Manual



ZTE CORPORATION

ZXHN H198A

Home Gateway

User Manual

Manual No: SJ-20150505095649-002

Edition Time: 2015-11-01 (R1.0)

LEGAL INFORMATION

Copyright © 2015 ZTE CORPORATION.

The contents of this document are protected by copyright laws and international treaties. Any reproduction or distribution of this document or any portion of this document, in any form by any means, without the prior written consent of ZTE CORPORATION is prohibited. Additionally, the contents of this document are protected by contractual confidentiality obligations.

All company, brand and product names are trade or service marks, or registered trade or service marks, of ZTE CORPORATION or of their respective owners.

This document is provided "as is", and all express, implied, or statutory warranties, representations or conditions are disclaimed, including without limitation any implied warranty of merchantability, fitness for a particular purpose, title or non-infringement. ZTE CORPORATION and its licensors shall not be liable for damages resulting from the use of or reliance on the information contained herein.

ZTE CORPORATION or its licensors may have current or pending intellectual property rights or applications covering the subject matter of this document. Except as expressly provided in any written license between ZTE CORPORATION and its licensee, the user of this document shall not acquire any license to the subject matter herein.

ZTE CORPORATION reserves the right to upgrade or make technical change to this product without further notice.

Users may visit ZTE technical support website <http://support.zte.com.cn> to inquire related information.

The ultimate right to interpret this product resides in ZTE CORPORATION.

1 Safety Precautions

Usage Cautions

- Read all the safety cautions carefully before using the device.
- Only use the accessories included in the package, such as power supply adapter.
- Do not extend the power cord, otherwise the device will not work.
- The power supply voltage must meet the requirements of the device input voltage (The voltage fluctuation range is less than 10%).
- Keep the power plug clean and dry to prevent any risk of electric shock or other dangers.
- Disconnect all the cables during a lightning storm to prevent the device from damage.
- Power off and unplug the power plug when the device is not in use for a long time.
- Do not attempt to open the covers of the device. It is dangerous to do so when the device is powered ON.
- Power off and stop using the device under the conditions such as, abnormal sound, smoke, and strange smell. Contact the service provider for maintenance if the device is faulty.



Note:

The users should read the usage cautions above carefully and will be responsible for any incident resulting from the violation of the above cautions.

Environment Requirements

- Ensure proper ventilation to the device. Place the device away from direct sunlight and never spill any liquid on the device.
- Do not place any object on the device to prevent any deformation or damage to the device.
- Do not place the device near any source of heat or water.
- Keep the device away from any household appliances with strong magnetic or electric fields, such as microwave oven and refrigerator.

Cleaning Requirements

- Before cleaning, power off the device, and unplug all the cables connected to the device, such as power cable and Ethernet cable.

- Do not use any liquid or spray to clean the device. Use a soft dry cloth.

Environment Protection

- Do not dispose the device or battery improperly.
- Observe the local regulations about the equipment disposal or treatment.

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of $d=20$ cm between the device and the human body. To maintain compliance with RF exposure requirement, a separation distance of 20 cm between the device and the human should be maintained.

EC Declaration of Conformity

Hereby, ZTE CORPORATION, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

2 Packing List

Please make sure the ZXHN H198A package contains the items, refer to Table 2-1.

Table 2-1 Package Contents

Component Name	Count
ZXHN H198A	1
Power Adapter	1
Ethernet cable	1
User Manual	1

The actual items included in the package are subject to the telecommunication operator. If any of the components is incorrect, or damaged, contact the product agency. If you want to change the product, keep the packing box and components.

3 Indicators

Figure 3-1 shows the indicators on the front panel of the ZXHN H198A.

Figure 3-1 Indicators of the ZXHN H198A

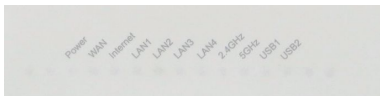


Table 3-1 describes the indicators on the front panel of the ZXHN H198A .

Table 3-1 Indicators on the Front Panel

Indicator	Status	Description
Power	Off	The device is powered off.
	Solid green	The device is powered on.
WAN	Off	The equipment is not powered on or the WAN port is disabled.
	Solid green	The link is activated.
	Flashing green	Data is transmitting.

Indicator	Status	Description
Internet	Off	The device is not powered on, there is no WAN connection with Internet properties configured.
	Solid red	Sending and receiving data packets is abnormal.
	Solid green	There is a WAN connection with Internet properties configured and the WAN configuration is effective.
	Flashing green	Data is being transmitted.
LAN1– LAN4	Off	The device is not powered on or the network link is not established.
	Solid green	The network link has been established but no data is being transmitted or received.
	Flashing green	Data is being transmitted or received.
2.4GHz	Off	The device is not powered on or the wireless interface is disabled.
	Solid green	The wireless interface is enabled.
	Flashing green	Data is being transmitted.
5GHz	Off	The device is not powered on or the wireless interface is disabled.
	Solid green	The wireless interface is enabled.
	Flashing green	Data is being transmitted.

Indicator	Status	Description
USB1, USB2	Off	The device is not powered on or the USB interface is not connected.
	Solid green	The USB interface is connected and operating in host mode, but no data is being transmitted.
	Flashing green	Data is being transmitted on the interface.

4 Interfaces and Buttons

Figure 4-1 shows the interfaces and buttons on the back panel of the ZXHN H198A.

Figure 4-1 Interfaces and Buttons on the Back Panel

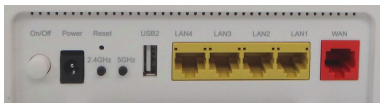


Table 4-1 describes the interfaces and buttons on the back panel of the ZXHN H198A.

Table 4-1 Descriptions of the Interfaces and Buttons on the Back Panel

Interface/Button	Description
On/Off	Power switch.
Power	12 V DC power connector.
Reset	Reset button, when the power is on, use a needle to press the button for over 5 seconds to restore the default settings.
2.4GHz	WLAN button for enabling or disabling the 2.4GHz WLAN function.

Interface/Button	Description
5GHz	WLAN button for enabling or disabling the 5GHz WLAN function.
USB1, USB2	Standard USB 2.0 interface, connected to a USB storage device for file sharing, fast backup, and data restoration, or connected to a dongle.
LAN1– LAN4	RJ-45 port, used to connect to a PC or other network device.
WAN	RJ-45 port, used to connect to the network provided by the ISP.



Note:

The USB1 button is on a side of the ZXHN H198A.

5 Product Features

The ZXHN H198A supports the following features:

- Provides one GE port with RJ-45 connector for Ethernet Uplink.
- Provides 4 X 10/100/1000 Base-T Ethernet interfaces.
- Provides two USB 2.0 Host.
- Supports 802.11a/b/g/n/ac.
- Supports router mode.
- Supports IPv4/IPv6.
- Supports IGMP Proxy, IGMP v1/v2/v3.
- Supports NAT / NAT.
- Supports DHCP Server/DHCP Client List.
- Supports DNS.
- Supports DDNS.
- Supports UPnP.
- Supports QoS.
- Supports MAC/IP/URL Filtering.
- Supports DMZ.
- Supports Port Forwarding.
- Supports VLAN.

- Supports Denial of Service.
- Supports HTTPS (optional).
- Supports ALG- TFTP/FTP/IPSEC.
- Supports WPA &WPA2 Personal.
- Supports TKIP.
- Supports AES.
- Supports Web management.
- Supports Remote Access Control- WWW/TELNET/ICMP.
- Supports Traffic Meter.
- Supports upload and download logs.
- Supports backup and factory reset by web browse.
- Supports two level account.
- Supports software/firmware upgrade via HTTP.
- Supports upload and download configuration.
- Supports TR069.
- Supports SNTP.
- Supports Trace route Diagnosis.
- Supports ping diagnosis.

6 Technical Specifications

For the technical specifications of the ZXHN H198A , refer to Table 6-1.

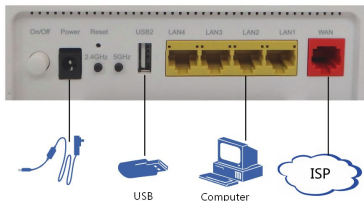
Table 6-1 Technical Specifications

Item	Specification
Dimensions (Without the base)	166 mm×160 mm×34 mm (Length × Width × Height)
Rated current	1.5 A
Rated voltage	12 V DC
Working temperature	-5 °C~40 °C

Item	Specification
Working humidity	5 % ~95 %
Storage temperature	-45 °C~70 °C
Storage humidity	5%~100%

7 Hardware Connection

The connections between the ZXHN H198A and other devices.



8 Troubleshooting

The Power indicator on the front panel is off after the power button is pressed.

- Power switch does not turn On.
- The power adapter is not correctly connected to the device. Be sure to use the power adapter supplied with the device.

The green LAN indicator on the front panel is off after the device is powered on.

- The corresponding LAN link is not established.

- The Ethernet cable is not correctly connected to the LAN interface.
- The network device connected to the LAN interface is not powered on.

The WAN indicator on the front panel is off after the device is powered on.

- The WAN link is not established.
- The Ethernet cable is not correctly connected to the WAN interface.
- Please contact the service provider for help.

Unable to connect to the network.

- Check that the Ethernet cable is correctly connected to the WAN interface and the Ethernet cable is correctly connected to the LAN interface.
- Check that the WAN indicator on the front panel is on and the Internet indicator on the front panel is solid green or flashing green.

Restore the factory default settings.

- After the power is on, use a needle to press the button for over 5 seconds to restore the default factory settings.

9 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

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. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
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.

ZTE

Tomorrow never waits

CERTIFICATION

CHECKER _____

DATE _____

ZTE

Address: No.55, Hi-tech Road South,
ShenZhen, P.R.China

Postcode: 518057

Tel: +86-755-2677 1900

URL: <http://support.zte.com.cn>

E-mail: support@zte.com.cn