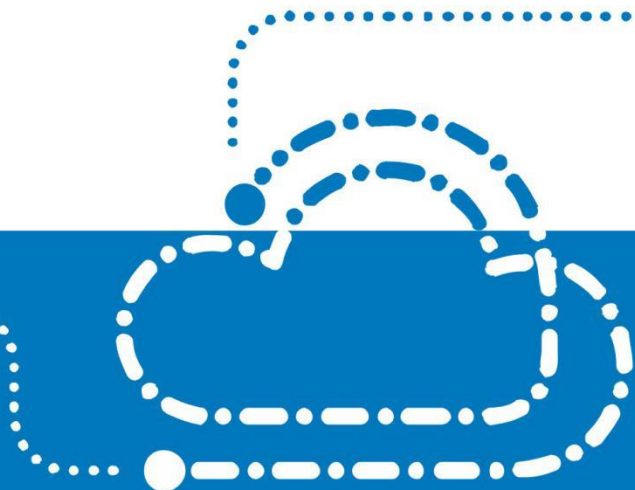




Operator Logo

ZXHN H6745 V3 Product Description



ZXHN H6745 V3 Product Description

Version	Date	Author	Reviewer	Notes
V1.0	2024/07/22	Du Luoming		Not open to the third party

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1 Overview

ZXHN H6745 V3 is an advanced home gateway that supports Dual-band concurrent 11be Wi-Fi. It provides High Speed Internet and IPTV through the 2.5 GE, and fiber(via SFP cage) uplink. Those services are delivered by the gateway on your home network to the PCs, STBs, gaming devices and so on via the integrated interfaces: Ethernet, Wi-Fi,

Some highlights are described as following:

- Multiple Internet Access Choices with WAN Auto Sensing

H6745 V3 provides internet access through one 2.5 GE WAN port and fiber(via SFP cage). It is capable to provide multiple Internet access choices to various broadband access networks.

- 2.5GE and GE LAN Ports

H6745 V3 is equipped with one 2.5 Gigabit Ethernet and two 1 Gigabit Ethernet LAN interfaces which provides higher bandwidth and speed for networking and makes the device more future-proof.

- Dual Band Concurrent Wi-Fi

H6745 V3 supports Dual-Band concurrent Wi-Fi 802.11b/g/n/ax/be 4x4 @ 2.4GHz and 802.11a/n/ac/ax/be 4x4@5GHz. Wi-Fi is a key feature for the end users to build up a home network without any cabling in the house or in the office.

11be technology bring enormous benefits in terms of increased coverage, throughput and capacity.

H6745 V3 is featured with WPA2, WPA3, WPA and TKIP/AES encryption to secure the wireless network. It also supports MAC address based access list feature to keep your wireless connection safe from unauthorized access.

H6745 V3 also supports WPS function with simply push-button for user-friendly security configuration.

- EasyMesh Compliance

ZTE NetSphere Smart Managed Wi-Fi of multiple APs, support Auto configuration, Plug & Play, Band Steering, Smart Roaming with 802.11k/v, Self-healing Mesh Networking

- IPv4 / IPv6 Dual Stack

H6745 V3 supports IPv4 / IPv6 dual stack mechanism for IPv6 network migration.

- Remote management

The remote management is a key factor for better end-user experience and OPEX savings. H6745 V3 supports TR-069. It is convenient for operators to facilitate the large-scale deployment and maintenance by zero-touch provisioning.

2 Hardware Features

2.1 Physical Interfaces

- Network Side Interfaces:
 - One 2.5GE WAN Port
 - One SFP cage
- User Side Interfaces:
 - One 2.5GE LAN Port
 - Two GE LAN Port
 - Integrated 802.11b/g/n/ax/be 4x4 @ 2.4GHz and 802.11a/n/ac/ax/be 4x4 @5GHz WLAN Access Point
 - One USB 3.0 host port
 - 2 POTS ports (RJ11)
- Buttons:

- Factory Reset (pin hole)
- WPS button
- WiFi button
- Power Socket:
 - Rated Input: 12V /2.5A DC

2.2 Device Appearance

Figure 2-1 H6745 V3 Front View



Table 2-1 Descriptions of the LED on the Front Panel

Identification	Color	Status	Description
POWER	-	Off	Power is OFF or the power supply is not

				connected or is faulty
		Red	On	System failure (some errors during BOOTING stage)
		Green	On	Power on
LINK	WAN Ethernet	-	Off	Ethernet link down
		Green	On	Ethernet link up
	SFP	-	Off	Optical Link down (fiber signal NOT detected)
		Green	On	Optical Link up (fiber signal detected)
INTERNET		-	Off	No physical WAN enabled or no default gateway or gateway in bridged mode
		Red	On	Device attempts to get IP address but failed as physical WAN enabled and default gateway configured (In IPv4/v6 dual stack, both attempt to get IP address but fail)
		Green	On	One of Internet WAN access with default gateway gets an IP address
			Blinking (Rate 4Hz)	Internet data transmitting/receiving
LAN		-	Off	Link down
		Green	On	Link on
			Blinking (Rate, 2Hz)	Internet data transmitting/receiving
2.4G		-	Off	2.4G WLAN radio OFF
		Green	On	2.4G WLAN radio On
			Blinking	Data transmitting/receiving

		(Rate, 2Hz)	
		Blinking (Rate 4Hz)	WPS process in progress
	Red	On	WPS process fail
5G	-	Off	2.4G WLAN radio OFF
	Green	On	2.4G WLAN radio On
		Blinking (Rate, 2Hz)	Data transmitting/receiving
		Blinking (Rate 4Hz)	WPS process in progress
	Red	On	WPS process fail
PHONE	-	Off	No Registered SIP accounts
	Green	On	At least one SIP account is registered
		Blinking (Rate, 2Hz)	when voice port is off hooked or incoming call
	Red	On	When SIP registration failed
SFP	-	Off	No SFP detected in the SFP cage (SFP could be broken or not properly inserted in the SFP cage)
	Green	On	An SFP have been connected to the SFP cage, it' s powered by modem and consequently it' s detected

Figure 2-2 H6745 V3 Rear View



Table 2-2 Descriptions of the Buttons and Ports on the back Panel

Interface/ Button	Function
On/Off	Power switch, to power on or power off the device.
Power	Power supply port, It is connected to the power adapter.
WPS	WPS Push Button.
Reset	Hold on this button for more than 5 seconds to reset the current settings to the factory

	default settings, and then the device will reboot automatically.
WLAN	WLAN switch, to turn on/off the WLAN.
Phone1- Phone2	RJ-11 port, it is used to connect to the analog telephone.
LAN1,LAN2,LAN3	RJ-45 port, it is used to connect the modem to computer, STB or other network devices.
WAN	RJ-45 port, it is used to connect to the network devices or the uplink Ethernet access network.

3 Software Features

- Wi-Fi Feature
 - Compliant with IEEE802.11be(WiFi 7), IEEE802.11ax, IEEE802.11ac, IEEE802.11a, IEEE802.11n, IEEE802.11g and IEEE802.11b standards
 - Support MU-MIMO
 - Support STBC, LDPC, TX&RX Beamforming
 - Support 1024QAM
 - Support MU-OFDMA
- Security
 - Support SSID broadcast on/off function
 - Support WPA-PSK, WPA2-PSK, WPA3-PSK
 - Support AES, TKIP encryption
 - Support firewall settings
 - Support parental control, Black List

- Management and Configuration
 - Supports TR-069
 - WEB GUI (local and remote management)
 - Factory setting reset
 - Supports system log

4 Technical Specification

4.1 Physical Indices

4.1.1 Device Dimensions (L×W×H)

- 274*80*215mm (H6745 V3 case)
- 350*245*68mm. (H6745 V3 Color Box)

4.1.2 Weight

- 703g (not include attachment and power adapter)
- 1131g (include attachment and power adapter)

4.1.3 Power

- 13.2W (Idle-State)
- 17.5W (On-state)

4.2 Power Input

- External power adaptor
- Rated Input: 12V / 2.5A DC

4.3 Environment Requirement

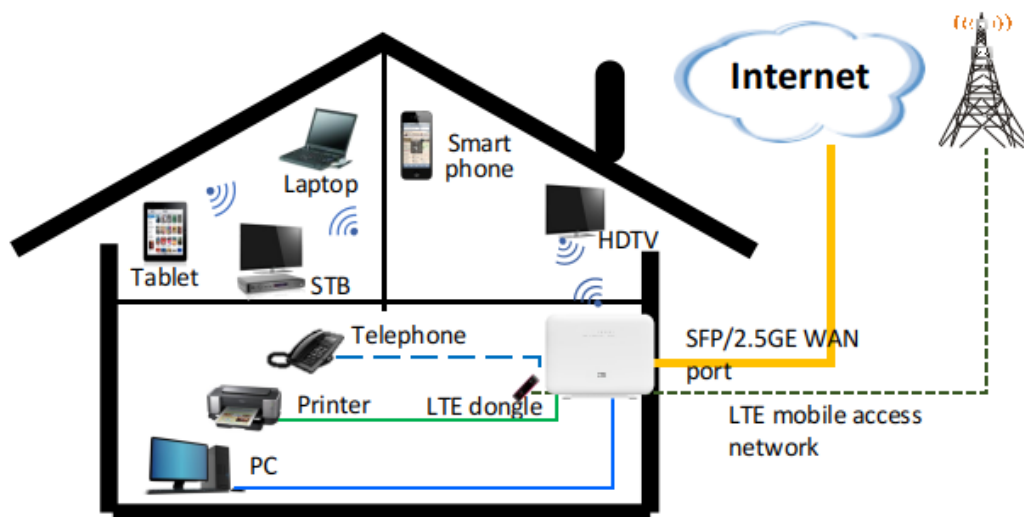
- Operating temperature: 0°C~ 40°C (23°F~113°F)
- Operating humidity: 5%~95% (non-condensing)
- Storage temperature: -40°C~70°C(-40°F ~158°F)
- Storage humidity: 5%~95% (non-condensing)

4.4 Certification

- CE Certification
- Wi-Fi Certification

5 Service/Networking Application

Figure 5-1 ZXHN H6745 V3 Network Topology



6 Glossary

Table 6-1 Glossary

Abbreviations	Full Characteristics
CPE	Customer Premise Equipment
DMS	Digital Media Server
IP	Internet Protocol
ISP	Internet Service Provider
LAN	Local Area Network
NAT	Network Address Translation
POTS	Plain Old Telephone Service
PPP	Point-to-Point Protocol

Abbreviations	Full Characteristics
PPPoE	PPP over Ethernet
UPnP	Universal Plug and Play
VDSL	Very High Speed Digital Subscriber Line
WLAN	Wireless Local Area Network
WPS	Wi-Fi Protected Setup
SPI	Stateful Packet Inspection
SNTP	Simple Network Time Protocol
SSID	Service Set Identifier
WEP	Wired Equivalent Privacy
WPA	Wi-Fi Protected Access
POTS	Plain Old Telephone Service
VoIP	Voice over IP
FXO	Foreign Exchange Office
SIP	Session Initiation Protocol