HUAWEI HG256s

Home Gateway Quick Start

1 Introduction

The Front Panel of the HG256s



The front panel of the HG256s provides the following indicators:

- One power indicator: **POWER**
- One Internet indicator: INTERNET
- One WiFi indicator: WLAN
- Two VoIP indicators: VOIP1, VOIP2
- Four LAN indicators: LAN1, LAN2, LAN3, LAN4
- One USB indicator: USB

Download from Www.Somanuals.com. All Manuals Search And Download.

The Rear and Side Panel of the HG256s



1. The rear panel of the HG256s provides the following interfaces and button:

- One WAN interface: WAN
- Two PHONE interfaces: PHONE1, PHONE2
- Four LAN interfaces: LAN1, LAN2, LAN3, LAN4
- One Reset button: **RESET**
- One power interface: **POWER**

2. The side panel of the HG256s provides the following buttons:

- One WPS button: WPS
- One WLAN button: WLAN
- One ON/OFF button: **ON/OFF**



The USB interface is on the top of the HG256s. Portable storage devices, such as USB flash drives and portable hard disks, can be connected to the USB interface.

2 Installation Guide

The figure as below shows the cable connections.



3 Getting Started

To power on the HG256s, press the ON/OFF button on the side panel of the HG256s.

After you power on the HG256s, the **POWER** and **INTERNET** indicators turn solid on, which indicates that the HG256s is working properly.

4 Configuring the Wireless Network Connection

If a wireless network adapter is installed on your computer, you can connect your computer to the HG256s through a wireless connection.

There are two methods to configure the wireless network connection.

Setting Up a Wireless Connection Manually

To configure the wireless network connection through the web page, do as follows:

Step 1 Record the WLAN name.



The WLAN name (SSID) of the HG256s is preset before delivery. You can find it from the label on the rear panel of the HG256s or consult the Internet Service Provider (ISP).

- Step 2 Configure the wireless network connection on your computer (taking the Windows XP operating system as an example):
 - 1. Choose Start > All Programs > Accessories > Communications > Network Connections.



Download from Www.Somanuals.com. All Manuals Search And Download.

2. In the **Network Connections** window, right-click **Wireless Network Connection** to display a shortcut menu, and then select **View Available Wireless Networks** from the shortcut menu.



3. Select the wireless network that is configured in Step 1 from the wireless network list, and then click **Connect** in the lower right corner of the window.



Connected appears on the icon of the wireless network in the wireless network list, which indicates that your computer is connected to the HG256s through wireless connection.

Setting Up a Wireless Connection by the WPS button

If the wireless network adapter on your computer can support the WPS function, you can connect your computer to the HG256s wirelessly as follows:

- Step 1 Set the network connection of your PC and ensure that your PC obtains an IP address automatically.By default, the DHCP function of the HG256s is enabled. In this case, the HG256s assigns an IP address to your PC automatically and you do not need to configure the IP address of your PC.
- Step 2 In the address bar of the Internet Explorer, enter http://192.168.1.1, and then press Enter.

HUAWEI	Voice Home Gateway
	L Username:
	Password:
	Please enter your username and password.
	Login Cancel

- Step 3 In the Login dialog box, enter the user account (admin by default) and the password (admin by default), and then click OK.
- Step 4 In the navigation tree, choose Basic > WLAN. The WLAN configuration page is displayed.

	/oice Home Gateway				5
	Basic > WLAN > WLAN				
<u></u>	WLAN WLAN Filte	ering			
Status	Enable WLAN				
~~~~	Wireless Settings				2
<b>O</b> Basic	Mode:	802.11b/g/n 🔽			
	Country Code:	SINGAPORE	~		
LAN	Channel:	Auto	~		
WLAN	MCS:	Auto	~		
	Band Width:	20/40	~ м	IHZ	
2	Guard Interval:	long	~		
Advanced	Transmit power:	20	di	Bm (1-20 dBm)*	
-	SSID Index:	SSID1	~		
	SSID:	HG256s	-		
🤵 Maintenance	Maximum Number of Accessing Devices:	32	*		
	Enable SSID:	Enable			
	Hide Broadcast:	Enable			
	Enable WMM:	Enable			
	Security Mode:	OPEN	~		
				ſ	Submit

Download from Www.Somanuals.com. All Manuals Search And Download.

# Step 5 Set the Security Mode to WPA-PSK, WPA2-PSK or WPA-PSK/WPA2-PSK.

	oice Home Gateway	141		to Log	jout
	Basic > WLAN > WLAN				
	WLAN WLAN Filte	ering			
Status	Wireless Settings			?	
	Mode:	802.11b/g/n 🗸			
	Country Code:	SINGAPORE	~		
O Basic	Channel:	Auto	~		
.T.	MCS:	Auto	~		
	Band Width:	20/40	~	мнг	
LAN	Guard Interval:	long	~		
WLAN	Transmit power:	20		dBm (1-20 dBm)*	
	SSID Index:		~		
	SSID:	HG256s		•	
- Advanced	Maximum Number of Accessing Devices:	32		*	
	Enable SSID:	<ul> <li>Enable</li> </ul>			
<b></b>	Hide Broadcast	Enable			
Maintenance	Enable WMM:	Enable			
	Security Mode:	WPA-PSK	*		
	WPA Pre-Shared Key:			(*	
	WPA Encryption:	AES 🔽			
	Enable WPS:	Enable			
	WPS Mode:	PBC 🗸			



The WPS function can be used only when the security mode of the WLAN is set to WPA-PSK, WPA2-PSK, or WPA-PSK/WPA2-PSK.

- Step 6 In WPA Pre-Shared Key, enter a WLAN access password.
- Step 7 Select AES for WPA Encryption.
- Step 8 Click Submit.
- Step 9 Press the WPS button to enable the HG256s to start the WPS negotiation.
- **Step 10** Enable the WPS negotiation function of the wireless network adapter on your PC within two minutes, and then wait for a moment (typically 10s).

The WLAN indicator of the HG256s becomes on from the blinking state, indicating that the HG256s is connected to your PC through the WLAN.



For more information about the functions and the configuration of the HG256s, please see the User Guide contained in the CD-ROM.

## 5 Configuring the WLAN MAC filtering

By default, the security mode of the WLAN is set to **OPEN** without any encryption and authentication mechanism. You can protect a wireless network by the WLAN MAC filtering function of the HG256s.

To protect a wireless network by the WLAN MAC filtering function, do as follows:

**Step 1** View and record the MAC address of the laptop.

Take the Windows XP operating system as an example. To view the MAC address of a PC, do as follows:

Run		?
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open	Emd	-
Openn	Re	

1. Choose Start > Run, enter cmd.

2. In the displayed command line window, enter ipconfig/all.

```
C:\WINDOW5\system32\cmd.exe
                                                                    - 0 ×
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.
C:\Documents and Settings\Administrator>ipconfig/all
Windows IP Configuration
  Host Name . . . . . . . . . . . : admin
Primary Dns Suffix . . . . . . : arcor-ip.de
Node Type . . . . . . . . . . . : Unknown
  IP Routing Enabled. . . . . . . : Yes
WINS Proxy Enabled. . . . . . . : No
  DNS Suffix Search List. . . . . : arcor-ip.de
Ethernet adapter Local Area Connection 2:
  Connection-specific DNS Suffix . :
  Description . . . . . . . . . . Broadcom NetXtreme Gigabit Ethernet #2
  DHCP Enabled. . . . . . . . . . . . . . . . No
  Default Gateway . . . . . . . . : 171.100.100.254
  C:\Documents and Settings\Administrator>
```

00-19-B9-F9-59-BB is the MAC address of the PC.

- **Step 2** Log in to the home page of the HG256s.
  - 1. In the address bar of the Internet Explorer, enter http://192.168.1.1, and then press Enter.

HUAWEI	Voice Home Gateway
	Lisemame:
	Password:
	Please enter your username and password.  Login Cancel
	a at he constants to be

- 2. In the **Login** dialog box, enter the user account (**admin** by default) and the password (**admin** by default), and then click **OK**.
- Step 3 Specify the SSID name of WLAN.
  - In the navigation tree, choose Basic > WLAN. The WLAN page will be shown as below:

	bice Home Gateway	01		5 Logo
	Basic > WLAN > WLAN			
	WLAN WLAN Filt	ering		
Katus Status	Enable WLAN			
Basic	Wireless Settings			?
Basic	Mode:	802.11b/g/n 💌		
	Country Code:	SINGAPORE	v	
LAN	Channel:	Auto	*	
WLAN	MCS:	Auto	~	
	Band Width:	20/40	*	MHZ
Advanced	Guard Interval:	long	۷	
Auvanceu	Transmit power:	20		dBm (1-20 dBm)*
	SSID Index	SSID1	V	
	SSID:	HG256s		×
🤶 Maintenance	Maximum Number of Accessing Devices:	32		×
	Enable SSID:	Enable		
	Hide Broadcast	Enable		
	Enable WMM:	Enable		
	Security Mode:	OPEN	۷	
				Submit
	Copyright © Huawei Te	echnologies Co., Ltd. 2009	-2010	All rights reserved.

2. Enter the SSID name in the **SSID** text box (for example **HG256s**) and keep the other parameters as default.

Step 4 Click WLAN Filtering and select Enable.

HUAWEI	Voice Home Gateway		5 Logout
	Basic > WLAN > WLAN Filtering		
	WLAN WLAN Filtering		
Status	Enable		
O Basic	Filtering mode:		
	WLAN Filtering		+ - ?
LAN		MAC Address	Remove
WLAN	Settings		
	Select SSID:	HG256s 💌	
Advanced	Source MAC address:	(AA:BB:CC:DD:EE:FF)*	
			Submit
. Maintenance			

Step 5 Select Whitelist for Filtering mode and then click .

HUAWEI	Voice Home Gateway	( ) De-	3	뉯 Logout
	Basic > WLAN > WLAN Filtering			
<u></u>	WLAN WLAN Filt	ering		
M Status	✓ Enable			
<b>Basic</b>	Filtering mode: O Blacklist 💿 Whitelist			
-	WLAN Filtering		+ -	?
LAN	MAC Add	ress	Remove	
WLAN	Settings			
	Select SSID:	IG256s 🗸		
Kolean Advanced	Source MAC address:	(AA:BB:CC	:DD:EE:FF)*	
			Submit	
🤱 Maintenanc	•			

Step 6 In Source MAC address, enter the MAC address of the laptop. For example, the MAC address can be 00:19:B9:F9:59:BB.

Æ

The format of the MAC address entered in **Source MAC address** is different from that of the MAC address displayed in the command line window of a Windows XP operating system. The colons (:) replace the hyphens (-).

Step 7	Click Submit.
--------	---------------

	oice Home Gateway				5
	Basic > WLAN > WLAN Filtering				
	WLAN WLAN	Filtering			
Status	✓ Enable				
Basic	Filtering mode: OBlacklist 🖲 White	elist			
Basic	Filtering mode: O Blacklist O White	elist	_	+ - ?	i.
<b>Basic</b>	Filtering mode: OBlacklist OWhite	MAC Address	-	Remove	i.
Basic LAN WLAN	Filtering mode: O Blacklist O White WLAN Filtering	MAC Address 10:19:B9:F9:59:BB		remove	
Basic AN MLAN	Filtering mode: O Blacklist O White WLAN Filtering 0 Settings	MAC Address 00.19/89.F9.59.88	_	Remove	
An NLAN Advanced	Filtering mode: O Blacklist O White WLAN Filtering 0 Settings Select SSID:	MAC Address 00.19.89.F9.59.88 HG256s	V	Remove	
Advanced	Filtering mode: C Blackist @ White WLAN Filtering 0 Settings Select SSID Source IA-C address:	MAC Address 00.19.89.F9.59.88 HG256s 00.19.89.F9.59.88	AABB.CC.DJ.EE.FF)*	Remove	

After finish the settings, you can allow only the PC with the MAC address is **00:19:B9:F9:59:BB** to connect to the WLAN.

When you select **Blacklist** for **Filtering mode**, you can use the same way to prohibit specified PCs from being connected to the WLAN.



By default, the security mode of the WLAN is set to **OPEN**. It is highly recommended that you should set the security mode to **WPA2-PSK** for the WLAN and set the encryption as **AES**. In advance, you need to ensure your wireless adapter can support the security and encryption mode.

# Copyright $\ensuremath{\textcircled{C}}$ Huawei Technologies Co., Ltd. 2011. All rights reserved.

#### **Trademarks and Permissions**

HUAWEI, And Are trademarks or registered trademarks of Huawei Technologies Co., Ltd.

Other trademarks, product, service and company names mentioned are the property of their respective owners.

#### NO WARRANTY

THE CONTENTS OF THIS MANUAL ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAWS, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS MANUAL.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO CASE SHALL HUAWEI TECHNOLOGIES CO., LTD BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS, BUSINESS, REVENUE, DATA, GOODWILL OR ANTICIPATED SAVINGS.

> Issue: 03 (2011-01-28) Part Number: 201232

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com