

Sunrise Internet Box 5G User manual

How to use this Document?

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The **Sunrise Internet Box 5G** is a 5G wireless gateway for multiple users in household or small office environments. It enables users to access the Internet with optionally voice services.

The **Sunrise Internet Box 5G** supports 3GPP Release 15 with UE downlink category 19 and uplink category 13.

Downlink peak rate: 1Gbps Uplink peak rate: 100Mbps

Note



The actual data rate varies with network configuration.

- Working band: 5G: N41/78, LTE: B1/3/5/7/8/20/28/32/34/38/39/40/41/42/43
- Wi-Fi: 802.11 b/g/n/a/ac/ax. 2.4GHz Wi-Fi 2x2 MIMO up to 300Mbps, 5 GHz Wi-Fi 4x4 MIMO up to 4.8Gbps.
- 1Gbps port for LAN/WAN, 1Gbps port for LAN
- Customer management via Web UI
- Operator maintenance via TR-069 and TR-143 (Optional)
- 5GHz Wi-Fi preferred option (band steering)

The **Sunrise Internet Box 5G** can access the services through mobile networks. By connecting clients devices to the **Sunrise Internet Box 5G** using Wi-Fi or a network cable, users can obtain access to high-speed Internet services and establish a home network.



Figure 1 Home Network Overview

2 Description and hardware installation of the Sunrise Internet Box 5G

2.1 Connectors and buttons



Figure 2 Sunrise Internet Box 5G connectors and buttons

Item	Meaning
1. Power button	Press and hold the Power button for 2 or more seconds to switch the Sunrise Internet Box 5G on/off
2. LAN port	RJ45 connector: Connect to devices over an Ethernet connection. For example, computers, printers, network storage devices, etc.

3. LAN/WAN port	RJ45 connector: WAN function: Connect the Sunrise Internet Box 5G to other modem using an Ethernet cable to connect to the Internet. LAN function: Connect to devices over an Ethernet connection. For example, computers, printers, network storage devices, etc.
4. Landline phone port	RJ11 connector used to connect to a classical analogue telephone set or DECT Base station for voice services (VoIP)
5. Power input	Connect a power adapter
6. Ambient light strip	On: Sunrise Internet Box 5G is powered on Flashing: Sunrise Internet Box 5G is restoring factory settings
7. Hi/WPS button	Press the button 1 to 5 seconds to start the WPS process
8. Wi-Fi indicator	On: Wi-Fi is enabled Flashing quickly: A WPS connection pairing is being set up Flashing slowly: A pair-able WPS device is detected Off: Wi-Fi is disabled
9. 4G signal indicator	Steady green: Strong Steady yellow: Moderate Steady red: Weak Off: The Sunrise Internet Box 5G failed to recognize the SIM card
10. 5G signal indicator	Steady green: Strong Steady yellow: Moderate Steady red: Weak Off: No 5G signal
11. SIM card slot	Insert the nano-SIM card
12. Reset button	Press and hold the Reset button for more than 2 seconds to restore the Sunrise Internet Box 5G to its factory settings

2.2 Installing Sunrise Internet Box 5G

2.2.1 Installing and connecting your Sunrise Internet Box 5G with Wi-Fi Network

1. Place the Sunrise Internet Box 5G in an upright position and as close to a window as possible. This will help to get the best possible signal.



Figure 3 Installing Sunrise Internet Box 5G (1)

2. Plug in the power cable. Turn on the Sunrise Internet Box 5G. To do so, press the ON/OFF button for three seconds. As soon as the Sunrise Internet Box 5G lights up in blue, it is switched on.



Figure 4 Installing Sunrise Internet Box 5G (2)

3. As soon as the Wi-Fi indicator as well as one of the two lights at the top glows continuously (5G or 4G), you are online. This takes about one minute.



Figure 5 Installing Sunrise Internet Box 5G (3)

Item	Meaning		
4G signal indicator	Steady green: Strong Steady yellow: Moderate Steady red: Weak Off: The Sunrise Internet Box 5G failed to recognize the SIM card.		
5G signal indicator	Steady green: Strong Steady yellow: Moderate Steady red: Weak Off: No 5G signal		

4. Now connect your mobile device to the Wi-Fi network and start surfing at the highest speed. The necessary information (Wi-Fi name and password) can be found on the top and bottom of the Sunrise Internet Box 5G.

Or there's an even simpler way:

iOS: Scan the QR code with your smartphone's camera and open the link. **Android**: Please install a QR code app, use it to scan the QR code, and open the link.





2.2.2 SIM Card

PIN free SIM card is already preinstalled into **Sunrise Internet Box 5G** (type nano-SIM)

Please note that:

- provided SIM is paired / locked to Sunrise Internet Box 5G and it cannot be used with any other device
- Sunrise Internet Box 5G will, work only with Sunrise provided SIM cards (SIM card replacement is not allowed)

To remove the SIM card, gently press the SIM card in until it clicks. The card will automatically pop out.

Do not insert or remove a SIM card when the **Sunrise Internet Box 5G** is running, as this may affect performance or damage the SIM card!



Figure 7 Inserting SIM card



You can manage the **Sunrise Internet Box 5G** using the web-based management page.

All configurations in this section are performed on web-based management page. Log in to web-based management page according to the following steps:

- Step 1 Connect your computer to the Sunrise Internet Box 5G's Wi-Fi network (or connect the computer to the router's LAN port using an Ethernet cable)
- Step 2 Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your Sunrise Internet Box 5G's web-based management page. Please refer to the label on the bottom of the Sunrise Internet Box 5G for the default password. You would have to change default password with the first log-in

3.1 Setup Wizard

The setup wizard guides you through setting up the **Sunrise Internet Box 5G** at your first login.

Procedure

- Step 1 The setup wizard is automatically displayed if this is your first time logging in
- Step 2 Set the parameters as instructed
 - On Welcome Screen (right top corner) select the desired language
 - Enter the default UI Password mention on the label at the bottom of the Sunrise Internet Box 5G and select Log in
 - Auto update screen is displayed
 - Select–Update Manually option
 - Set Wi-Fi name and password screen displayed
 - 5 GHz Preferred option is default enable. On 5GHz button is ON the 2.4 GHz and 5 GHz SSID and password will be same, if 5GHz button is off, two different SSID for 2.4 GHz and 5Ghz are displayed with password fields
 - The user can change SSID and password
 - Click to Next to complete the setup

Note

If you insert a SIM card and set the parameters while the device is powered on, restart the device to enable the settings.

3.2 Device Management

User can manage and view information about devices connected to the **Sunrise Internet Box 5G**.

Procedure

- Step 1 Click Devices
- Step 2 In the **Online Devices** and **Offline Devices** lists, check the information of online and offline devices connected
- Step 3 From the Offline Devices list, user can click Delete to delete the selected device
- Step 4 From the Online device user can edit the name of Device
- Step 5 From the Internet Access list, user can enable or disable the Internet access permission for the selected device for both online and offline devices

----End

👋 HUAWEI			Language +	▲ 🖻 😤
	奈 Wi-Fi Settings	႕ Devices	Tools	🗑 Advanced
Online Devices				Internet Access
CWP6387 0 day 0 hour 14 minute Lease time remaining: 0 day 23 hour 4	15 minute	MAC addres	ss: 18:1D:EA:B8:94:3 IPv4: 192.168.8.10	0 3 My device
MacBook-Air 0 day 1 hour 14 minute Lease time remaining: 0 day 22 hour 4	15 minute	MAC addre	ess: F0:18:98:9C:E7:1 IPv4: 192.168.8.10 0::10f4:57ab:24d1:ab	1 4 2
Galaxy-S10 0 day 0 hour 0 minute Lease time remaining: 0 day 23 hour 5	59 minute	MAC addres	ss: A8:DB:03:DF:3F:0 IPv4: 192.168.8.10 I::5484:9bb2:8742:df4	F 7 f
HUAWEL Mate_20 X × 0 day 0 hour 3 minute Lease time remaining: 0 day 23 hour 5	56 minute	MAC addre	ess: C4:06:83:F8:48:0 IPv4: 192.168.8.10 0::c606:83ff:fef8:480	7 5 7
Offline Devices				
57/00085D2F5D7A 📿 聞		MAC addres	ss: 00:08:5D:2F:5D:7/	Ą
😯 СWР3666 🛛 🗶 🛍		MAC addre	ss: 18:1D:EA:19:04:2	

Figure 8 Devices Management

3.3 Connection

3.3.1 Mobile Network Settings

Before using the **Sunrise Internet Box 5G** to access the Internet, configure mobile network settings.

Disclaimer: Please note that traffic from **Sunrise Internet Box 5G** to Internet is NAT-ed,

As a consequence there may be limitations with remote connections to the **Sunrise Internet Box 5G** (e.g. inbound Remote Desktop, online games (e.g. Nintendo Switch)).

Procedure

- Step 1 Choose Network Settings > Mobile Network > Internet Connection
- Step 2 Enable or disable Mobile Data (by default is enabled)
- Step 3 Data roaming is by default disabled (Data roaming is not applicable for Sunrise Internet Box 5G)



3.4 VPN* (not supported Sunrise service)

Note: configuration and potential issues related to Virtual Private Network (VPN) are not part of Sunrise Customer Services support

3.4.1 Checking VPN Status

User can check VPN connection status on your Sunrise Internet Box 5G.

Virtual Private Network (VPN) is a technology that extends a private network across a public network. It employs security technologies such as encryption and authentication to ensure your data privacy and security. For example, user can access your corporate intranet at home by connecting to company's VPN server via VPN. It allows you to securely and conveniently access internal corporate resources at home.

Procedure

- Step 1 Go to Advanced > Router > VPN
- Step 2 User can find VPN connection information here

----End

3.4.2 Establishing a VPN Connection

User can access his company's intranet on a terminal device (such as a PC) via VPN after configuring VPN settings on the **Sunrise Internet Box 5G**.

Procedure

- Step 1 Go to Advanced > Router > VPN
- Step 2 Select L2TP VPN client from Connection type
- Step 3 Configure VPN settings

Parameter	Description
LNS address	IP address of the L2TP server. Layer 2 Tunneling Protocol (L2TP) is a virtual tunneling protocol used to support VPNs. If the server you want to connect to uses L2TP, LNS address , Tunnel password , PPP user name and PPP password are required and they are provided by your VPN server provider
Hostname	Provided by your VPN server provider
Tunnel password	Provided by your VPN server provider
Handshake interval (s)	After a VPN connection is established, Sunrise Internet Box 5G will send status reports to the VPN server at this frequency. Users will be disconnected if the VPN server does not receive status reports for an extended period of time

Parameter	Description
PPP user name	Provided by your VPN server provider
PPP password	Provided by your VPN server provider

3.5 Traffic Statistics

3.5.1 Viewing Traffic Statistics

Traffic statistics provide the network connection duration and traffic generated.

Context

Ċ	Note
	Traffic statistics are provided for your reference only. Accurate traffic records can be obtained from the bill provided by your operator.

Procedure

- Step 1 Click Tools > Statistics
- Step 2 View the traffic data

----End

👫 HUA	₩EI ⊕ Network Set	tings		Language -	↑ 🖻 🔅
介Home	Wetwork Set	tings 🛛 🥱 Wi-Fi Se			
			ttings උදි Devic	es 🚦 Tools	🐼 Advanced
Statistics Parental C	Control	Statistics Volume statistics provided bills.	d here are approximate. For a	accurate statistics and details	s of charges refer to your
			Mobile Net	twork	ø
		Туре	Current Volume	Monthly data usage	Total data usage
		Used	64.92KB	64.92KB	64.92KB
		Duration	00:08:24	00:08:24	00:08:24

Figure 10 Traffic Statistics

3.5.2 Clearing Traffic Statistics

This section describes how to clear the recorded traffic statistics.

Procedure

- Step 1 Click Tools > Statistics
- Step 2 Click Clear History

----End

3.5.3 Setting the Monthly Traffic Statistics Function

User can set the monthly traffic statistics function and view the data usage in the current month.

Procedure

- Step 1 Choose Tools > Statistics
- Step 2 Click on
- Step 3 Check Set monthly package and set Your monthly data plan
- Step 4 Click Save

----End

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Statistics Parental Contr	Statis	stics Mobile Networ	k		charges refer to your
	Set monthly packa	age 🔽			© Total data usana
	Monthly data plan Threshold	90 %	88 💌		65.33KB 00:08:42
		Cancel	Save		

Figure 11 Monthly Traffic Statistics Settings

3.6 Update

In order to have **Sunrise Internet Box 5G** on latest supported version it is strongly recommended that firmware (FW) upgrades of **Sunrise Internet Box 5G** are performed only by Sunrise. Before deploying new FW to **Sunrise Internet Box 5G** Sunrise runs extensive

validation of new FW. Only after successful testing, Sunrise will remotely update Sunrise Internet Box 5G.

Updates are performed during maintenance window (02:00 - 05:00)

3.6.1 Online Update* (not supported Sunrise service)

Note: The **Sunrise Internet Box 5G** supports online update, however this option is not supported nor recommended by Sunrise

Procedure

Step 1 Choose Advanced > Updates

1	Note	
Ċ	,	During your update, do not close the browser or unplug the Sunrise Internet Box 5G . When detecting a new version and being updated, the Sunrise Internet Box 5G reports the International Mobile Equipment Identity (IMEI) encrypted by RSA to the online update server.

Step 2 Click Check for Updates to check for the latest version.

Step 3 Click Update. In the displayed dialog box, click began to update

🤲 HUAW	EI			Language -	↑ ⊡ ※
介Home	Wetwork Settings	奈 Wi-Fi Settings	윥 Devices	Tools	🐼 Advanced
Wi-Fi	▲ Up	dates			
Updates	Reg Not	gularly update your router for a b e: Your device will automatically	etter experience and to disco check for and notify you of n	over new features. iew updates. You can a	lso check for new
Router	▲ Inte	sions on this page. During update met connection disconnected. K	es, mobile data may be used eep the charger plugged in t	I, your device will be re o avoid causing damag	started, and your e to your device.
Security					
VoIP	▲ Aut	o update			
System	•	When use be	enabled, your device will auto tween 3:00 am and 5:00 am.	omatically update wher	i your device is not in
			Devices		
		Main Device			
		H112-370 Current version No new version	: 10.0.1.1(H302SP5C154) s available	Local Update	\bigcirc
			Check for Update	25	

Figure 12 Online Update

3.6.2 Local Update* (not supported Sunrise service)

The **Sunrise Internet Box 5G** supports local update, however this option is not supported nor recommended by Sunrise

You can update the **Sunrise Internet Box 5G** by installing the local update package.

Procedure

- Step 1 Choose Advanced > Updates
- Step 2 Click Local Update

In the displayed dialog box, select the update package stored on your computer

- Step 3 Click Browse....
- Step 4 Click Update
- Step 5 On successful update pop up message displays "update successful(0)"

During the update, do not disconnect the **Sunrise Internet Box 5G** from its power supply or your computer.

When the update is complete, the **Sunrise Internet Box 5G** automatically restarts with the new version installed.



During the update, do not disconnect the **Sunrise Internet Box 5G** from its power supply or your computer.

When the update is complete, the **Sunrise Internet Box 5G** automatically restarts with the new version installed.

火 HUAV	VEI			Language +	↑ ⊡ ※
☆ Home	Network Settings	奈 Wi-Fi Settings	යි Devices	BB Tools	Advanced
Wi-Fi	.^ Up	odates			
Updates	Re	gularly update your router for a te: Your device will automatical	better experience and to disc to check for and notify you of	over new features. new updates. You can	also check for new
Router	▲ Inte	sions on this page. During updatement connection disconnected.	ates, mobile data may be use Keep the charger plugged in	d, your device will be r to avoid causing dama	estarted, and your age to your device.
Security					
VoIP	Aut	to update			
System		When use t	n enabled, your device will au vetween 3:00 am and 5:00 an	tomatically update who 1.	en your device is not in
			Devices		
		Main Device			
		H112-370 Current versio No new versio	n: 10.0.1.1(H302SP5C154) Ins available	Local Update	0
			Check for Upda	tes	

Figure 13 Local Update

3.6.3 Setting Auto Update* (not supported Sunrise service)

You can perform this task to enable system auto update, however this option is not supported nor recommended by Sunrise.

Procedure

- Step 1 Select Advanced > Updates
- Step 2 Select Auto update

----End



Figure 14 Auto update

3.7 PIN Management* (not applicable for SIM card provided by Sunrise)

Note: Sunrise Internet Box 5G is delivered with PIN free SIM, so this section is not applicable for the default SIM card. The Sunrise Internet Box 5G does not support SIM cards from other providers.

3.7.1 Enabling or Disabling PIN Verification

If PIN verification is turned on, you need to enter the PIN only when the **Sunrise Internet Box 5G** is turned on. If PIN verification is turned off, no PIN is required.

Context

- If a PIN is required, enter the correct PIN
- If you enter your PIN incorrectly three times consecutively, the SIM/USIM/UIM card is locked and you must enter the PIN unlock key (PUK)
- If you enter the PUK incorrectly ten times consecutively, the SIM/USIM/UIM card is locked permanently. If you cannot enter the correct PIN or PUK, network-associated functions are unavailable
- The PIN and the PUK are provided with the SIM/USIM/UIM card. If you did not receive them or have forgotten them, contact the operator

Procedure

Step 1 Choose Advanced > System > PIN Code Management.

- Step 2 Set PIN Code Management to either of the following:
 - Off: to disable PIN verification
 - **On**: to enable PIN verification
- Step 3 Enter the PIN (up to 7 digit) in the displayed dialog box
- Step 4 Click OK

🦑 НUAW	EI			Language -	Language - 🛧 📑 🔆	
合 Home				E Tools	Advanced	
Wi-Fi		PIN Code Management				
Updates	-		1			
Router		PIN Code Management				
Security						
VoIP						
System						
Device Informa	tion					
Restart						
Reset						



NUAWE	:1			Language -	个 🖻 🏯	
	Wetwork Settings				💮 Advanced	
Wi-Fi	•	PIN Code Management				
Updates						
Router	-	PIN Code Management)			
Security	*					
VoIP		Enter PIN Co	ode			
System						
Device Information	on PIN Code					
Restart		Remaining attem	pts: 3			
Reset						
One-click Check		Cancel				
Diagnosis						
Modify Password	1					

Figure 16 PIN Code Settings

3.7.2 Changing the PIN

If PIN verification is turned on, you can change the PIN.

Procedure

- Step 1 Choose Advanced > System > PIN Code Management
- Step 2 Enable PIN verification and select Modify PIN Code
- Step 3 Enter the current PIN
- Step 4 Enter a new PIN and confirm the PIN
- Step 5 Click Save
 - ----End

gement	<u>م</u>	▼ C @ Desktop@FusionAcc	cess 👋 Mobile Broadbar	nd ×				
	% huaw	ΈI				Language -	↑ ⊡ ※	÷
	介Home	Wetwork Setting	s 🛭 🎓 Wi-Fi Setti		දී Devices	B Tools	🐼 Advanced	
	Wi-Fi		PIN Code Manageme	nt				
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	Security	•	Modify PIN Code					
	VolP							
	System	•						

Figure 17 PIN Code Modification

nagement	۶- م	් 🥔 Desktop@FusionA	ccess 🦀 Mobile Broadb	and ×				
	火 HUAWE	I				Language -	↑ 🖻 券	
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	VoIP		PIN Code					
	System	.	New PIN					
	Device Informatio	n	Confirm PIN					
	Restart			Remainin	g attempts: 3			
	Reset							
	One-click Check							
	Diagnosis							

Figure 18 PIN Code Changing

3.7.3 Enabling or Disabling Automatic PIN Verification

If personal identification number (PIN) verification is enabled, you are required to enter the PIN at each startup of the **Sunrise Internet Box 5G** to verify whether the SIM/UIM is valid.

Procedure

- Step 1 Choose Advanced > System > PIN Code Management
- Step 2 Enable PIN Code Management

Step 3 Set Auto validate to either of the following:

- Off: to disable automatic verification
- **On**: to enable automatic verification

3.8 Ethernet Settings* (not supported Sunrise service)

Note: configuration and potential issues related to Ethernet Settings (**PPPoE Dial-up Settings** and **Dynamic IP Settings**) are not part of Sunrise Customer Services support

3.8.1 Setting Up the Ethernet Connection Mode

This section describes how to set up the Ethernet connection mode and parameters.

Procedure

- Step 1 Choose Network Settings > Ethernet > Ethernet Settings.
- Step 2 Set the Sunrise Internet Box 5G's connection parameters according to the following table.

Application Scenario	Configuration Method
The Sunrise Internet Box 5G selects the best network access mode based on the network environment.	 Select Auto from the Connection mode drop-down list Set Point-to-Point Protocol over Ethernet (PPPoE) and dynamic IP parameters. For details, see PPPoE Dial-up Settings and Dynamic IP Settings
Access the Internet using a PPPoE dial-up connection or a dynamic IP address.	 Select PPPoE + Dynamic IP from the Connection mode drop-down list Set Point-to-Point Protocol over Ethernet (PPPoE) and dynamic IP parameters. For details, see PPPoE Dial-up Settings and Dynamic IP Settings
You have the user name and password provided by your network service provider for the PPPoE dial-up connection.	 Select PPPoE from the Connection mode drop-down list. Enter the user name and password provided by your network service provider Set the MTU
The computer IP address is automatically assigned by the network service provider.	 Select Dynamic IP from the Connection mode drop-down list Select the Set DNS server manually check box, Enter Primary DNS server and Secondary DNS server NOTE: This step is optional. By default, the Sunrise Internet Box 5G automatically obtains the Domain Name Server (DNS) address. Set the MTU

You have the network parameters, such as a fixed IP address, subnet mask, gateway IP address, and domain name server (DNS) address, provided by your network service provider.	 Select Static IP from the Connection mode drop-down list Enter the IP address, subnet mask, gateway address, DNS address (optional), provided by your network service provider Set the MTU
The client is connected with a network cable, but no Ethernet connection is available.	Select LAN only from the Connection mode drop-down list NOTE: You can also unplug the network cable and access the Internet using the cellular data network
When Connection mode is set to PPPOE , Dynamic IP , or Static IP , you can enable virtual LAN and set parameters.	 Click on the right side of the VLAN to turn on the vlan function In the VLAN ID box, set the parameters

Step 3 Click Save.

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Mobile Netw	ork 🔺	Ethernet Settings				
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Ethernet Statu	s	PPPoE				
		User name				
		Password	•••••	•		
		MTU size	1480 Please do no	ot edit unless absolu	tely necessary	
		Dynamic IP				
		Set DNS server manually	\bigcirc			
		MTU size	1500 Please do no	t edit unless absolu	tely necessary	

Figure 19 Ethernet Settings

3.8.2 Checking the Ethernet Status

This section describes how to check the Ethernet Status.

Procedure

- Step 1 Go to Network Settings > Ethernet > Ethernet Status
- Step 2 Check the Duration/Connection status/MAC address/ Connection mode/IP address/Subnet mask/Default gateway and so on

----End

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	Mobile Network		Ethernet Status					
	Ethernet	•						
	Ethernet Settings		Duration	0 day 00 hour 00 minute 00 second				
	Ethernet Status		Connection status	Disconnected				
			MAC address	CC:A2:23:94:AF:E0				
			Connection mode	LAN only				
			IP address	Unknown				
			Subnet mask	Unknown				
			Default gateway	Unknown				
			Primary DNS server	Unknown				
			Secondary DNS server	Unknown				

Figure 20 Ethernet Status

3.8.3 MAC Address Clone

MAC address clone allows multiple devices to connect to the **Sunrise Internet Box 5G** and access the Internet.

Procedure

- **Step 1** Go to **Network Settings** > **Ethernet** > **Ethernet Settings**.
- Step 2 At the bottom of page the drop-down list on the right side of Clone MAC Address, select Use current device MAC.

Note



You can select **Manual input** from the drop-down list, and enter the MAC address in **MAC** address.

Or select **Do not clone** from the drop-down list.

Step 3 Click Save.

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Mobile Netwo	rk 🔺	Ethernet Settings			
Ethernet Settings	s	Connection mode	Auto The system chooses the best conne	▼	ally. (Recommended)
		PPPoE			
		User name			
		Password	•••••		
		MTU size	1480 Please do not edit unless absolutely	r necessary	
		Dynamic IP			
		Set DNS server manually			
		MTU size	1500 Please do not edit unless absolutely	y necessary	
			Save		
	Г	Clone MAC Address			
		Clone MAC Address	Do not clone	*	

Figure 21 MAC Address Clone

3.9 Wi-Fi Settings

3.9.1 Configuring Wi-Fi Security Settings

You can configure more security settings for your Wi-Fi to ensure data security.

Procedure

Step 1 Go to Advanced > Wi-Fi > Wi-Fi Security Settings

Step 2 Select Edit button under options located on 2.4 or 5 GHz SSID

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WI-FI Security Settings WI-FI Advanced Settings You can do more security settings for WI-Fi to ensure data security on your wireless network. (?) Help	WI-FI WI-FI WI-FI WI-FI Security Settings	ettings ings	Wi-Fi Security Settings You can do more security settings fo Help	r Wi-Fi to ensure data security or	n your wireless netw	ork.		
WI-FI MAC Filter 2.4 GHz WI-Fi WI-FI WPS	Wi-Fi MAC Filter Wi-Fi WPS		2.4 GHz Wi-Fi					
Updates Wi-Fi name (SSID) Security mode Status Options	Updates		Wi-Fi name (SSID)	Security mode	Status	Options		
Sunrise_5G_Box_99A6 WPA2-PSK	Router		Sunrise_5G_Box_99A6	WPA2-PSK		2		
Security	Security		Sunrise_5G_Box_99A6_S1	WPA2-PSK		~		
System	System							
5 GHz Wi-Fi				5 GHz Wi-Fi				
Wi-Fi name (SSID) Security mode Status Options			Wi-Fi name (SSID)	Security mode	Status	Options		
Sunrise_5G_Box_99A6 WPA2-PSK			Sunrise_5G_Box_99A6	WPA2-PSK		~		

Figure 22 Wi-Fi Security Settings

Step 3 Modify the Wi-Fi name in the Wi-Fi name (SSID) text box

Step 4 Select an encryption method in the Security mode drop-down list

 None (open): Unencrypted. No security key is required for a device to connect to the Wi-Fi network. User can connect SSID without any password



- **WEP**: Wired Equivalent Privacy.
- WPA2-PSK: WPA-PSK version 2, which is more secure than WPA-PSK
WPA/WPA2-PSK: Supports both WPA2-PSK and WPA-PSK encryption methods. You can use WPA-PSK or WPA2-PSK to connect to a Wi-Fi network

Step 5 Set your Wi-Fi password in the **Wi-Fi password** text box

Step 6 In the case You would like to hide Wi-Fi name (SSID) check the **Hide Wi-Fi** box Note



When enabled Hide Wi-Fi, user must enter the correct Wi-Fi name (SSID) of the Wi-Fi network You would like to connect to. Note that Wi-Fi WPS will be unavailable if Hide Wi-Fi option is enabled

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Wi-Fi Wi-Fi Advanced Wi-Fi Security S	▼ Settings	Wi-Fi Security Setti You can do more securit ? Help	ngs v settings for Wi-Fi to ensure data se	ecurity on your wireless ne	work.
Wi-Fi MAC Filte Wi-Fi WPS	r	← Back			
Updates		Wi-Fi name (SSID)	Sunrise_5G_Box_6202		
Router	•	Security mode	WPA2-PSK	*	
Security	-	Wi-Fi password		Ì	
		Hide Wi-Fi	When enabled, you must enter of the network you would like th Wi-Fi WPS will be unavailable.	the correct Wi-Fi name connect to. Note that	

Figure 23 Hide Wi-Fi SSID

Step 7 Click Save

----End

3.9.2 Enabling and Configuring Wi-Fi

Follow the steps below to configure and enable/disable your Wi-Fi network.

Procedure

- Step 1 Click Wi-Fi Settings
- Step 2 Wi-Fi button will enable or disable the Wi-Fi
 - On: Enable Wi-Fi
 - Off: Disable Wi-Fi
- Step 3 To Modify Wi-Fi name (SSID), enter the new SSID name in text field
- Step 4 Select Encrypted from Security mode

 None (open): Unencrypted. No security key is required for a device to connect to the Wi-Fi network



Figure 24 Enabling and Configuring Wi-Fi

3.9.3 Guest Wi-Fi

This section describes how to set up guest Wi-Fi.

Procedure—as default the SSID and password are present

Step 1 Choose Wi-Fi Settings > Guest Wi-Fi

Step 2 Enable or disable Guest Wi-Fi

- Step 3 Default active duration of Guest Wi-Fi is 4 hours, User can modify the duration from value available from drop down menu
- Step 4 In Wi-Fi name (SSID), user can modify Wi-Fi SSID
- Step 5 Security- user can select Guest SSID as Encrypted enable password mode or Selecting open will hide the password field
- Step 6 If user use Encrypted open the default password is set, user can update the desired password

Note: The Guest Wi-Fi password and standard Home Wi-Fi password cannot be the same.

Note



Open: Anyone can connect to the guest Wi-Fi network.

Encrypted: Access to the guest Wi-Fi network requires the password you set in the **Wi-Fi** password text box.

Step 7 Click Save.

Note



The **Time remaining** row displays the remaining active period of the guest Wi-Fi network. To prolong the active period by 30 minutes, click **Extend by 30 minutes**. You can as well choose to have Duration = **Unlimited**, **1 day** or **4 hours**

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ŵн	ome 🌐 Network S	ettings 🛛 🎅 Wi-Fi S	ettings දී Devices	Tools	🐼 Advanced
Wi- Gu	Fi Basic Settings est WI-Fi	Guest Wi-Fi When you have guests, Fi. Guests can access to be able to access device () Help Guest Wi-Fi Duration Wi-Fi name (SSID) Security	you can enable guest WI-FI. Your hom he Internet through guest WI-FI. They v es in main WI-FI. Guest WI-FI effectivel 4 hours Sunrise_5G_Box_AFE1_Guest Open	e will then have both main will not be able to manage y ensures your network p t	n WI-Fi and guest WI- your router and will not rivacy and security.
		Time remaining	Save 00 d 03 h 59 min 52 Extend by 30 min	s nutes	

Figure 25 Guest Wi-Fi Settings

3.9.4 Selecting a Working Band

You can select the working band you need following the instructions.

Procedure

- Step 1 Choose Advanced > Wi-Fi > Wi-Fi Advanced Settings
- Step 2 Select a working band from the Bandwidth drop-down list

By default Band	lwidth for	2.4 and 5 GH	z Wi-FI are se	t to Auto	(Default)
See HUAWE	I Natwork Sattin	age 🔷 Will El Settin	ns 🙎 Devices	Language +	I↑ 已 亲
WI-FI WI-FI Advanced 3 WI-FI MAC Filter WI-FI WPS Updates Router Security System	Settings	WI-FI Advanced Settin You can make more persona 2.4 GHz WI-Fi Bandwidth Channel 5 GHz WI-Fi Bandwidth Channel	gs keed Wi-Fi settings to adapt to a Auto (Default) Auto Auto (Default) Auto	a variety of network e	nvironments.

Figure 26 Working Band Settings

3.9.5 Selecting a Channel

This section describes how to select a channel.

Procedure

- Step 1 Choose Advanced > Wi-Fi > Wi-Fi Advanced Settings
- Step 2 Select a channel from the Channel drop-down list box

Step 3 Click Save

Note



If you do not know which channel to select, select **auto**. The **Sunrise Internet Box 5G** will then automatically select a channel.

In some case the higher channel are not selected depends on local DMF channel policy

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Wi-Fi NLFI Advanced Settings Wi-Fi Security Settings Wi-Fi Max Filter System System Signer Mi-Fi Advanced Settings Wi-Fi Advanced Settings Wi-Fi Advanced Settings Wi-Fi Advanced Settings Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (Defaut) Auto (De	☆Home (Wetwork Setting:	s 🗢 🎓 Wi-Fi Se	ettings 🔗 Devices	Tools	🐼 Advanced
WFFI Security Settings WFFI MAC Fiter Updates Router Security System Security System Security Subsec	Wi-Fi Wi-Fi Advanced S	▼ Settings	Wi-Fi Advanced So You can make more per	ettings sonalized Wi-Fi settings to adapt to a	variety of network er	nvironments.
WFFIWPS Updates Router Security System Channel Bandwidth Auto (Defauit) Auto Auto Auto Auto Auto Auto Auto Aut	WI-Fi Security Set	ttings	2.4 GHz Wi-Fi			
Router Channel Auto Security 5 GHz Wi-Fi 5 System 5 GHz Wi-Fi 5 Bandwidth 7 6 Channel 8 5	Wi-Fi WPS Updates		Bandwidth	Auto (Default)	٣	
Security System System Subsection Subs	Router	<u> </u>	Channel	Auto	•	
System 6 Bandwidth 7 Channel 8 Save	Security	•	5 GHz Wi-Fi	Auto		
Bandwidth 7 Channel 8 Save	System	•		6		
Channel 8 Save			Bandwidth	7		
Save			Channel	8		
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				Save		

Figure 27 Channel Settings

3.9.6 WPS

The Wi-Fi Protected Setup (WPS) is a standard used to set up wireless connections in an easy and secure way. Traditionally speaking, to set up a wireless connection, you have to set a Wi-Fi name (SSID) and key for the **Sunrise Internet Box 5G**, and enter the key on the client. WPS automatically configures an SSID and key for the **Sunrise Internet Box 5G** and client. You can conveniently and securely connect your client to the Wi-Fi without having to remember the SSID and key.

The WPS feature on your Sunrise Internet Box 5G can only be used if your Wi-Fi device has a WPS button. This WPS button can be a hardware button which is part of your device's hardware. It can also be a virtual button included in your device software (for example, it could be a virtual button in your phone's WPS app). Apple devices do not currently support WPS. For instructions on how to set up a WPS connection for devices other than HUAWEI phones, consult the accompanying user guide for your device.

Connecting a Terminal Device to your Sunrise Internet Box 5G Through STA (remote device) PIN

You can simply enter the device PIN code on your **Sunrise Internet Box 5G**' web UI to connect the device to your **Sunrise Internet Box 5G**'s Wi-Fi, and visit the Internet using **Sunrise Internet Box 5G**.

Step 1 Set the WPS connection method to PIN on your device, and remember the PIN code displayed on the screen





See your device's user guide for detailed operation instructions. Apple devices don't supports WPS

Step 2 Connect your computer to the Sunrise Internet Box 5G's Wi-Fi network (or connect the computer to the Sunrise Internet Box 5G's LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your Sunrise Internet Box 5G's web-based management page

Note

Enable or disable the WPS switch on the right side of **WPS**. You cannot configure the WPS connection if WPS is disabled. Apple devices don't supports WPS

Step 3 Go to Advanced > Wi-Fi > Wi-Fi WPS

Step 4 Enter the device PIN in the text box, and click Connect. The Wi-Fi indicator should start to flash. When the phone is connected to the Sunrise Internet Box 5G's Wi-Fi, the Sunrise Internet Box 5G's Wi-Fi indicator will turn from flashing to steadily lit.

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WI-FI WI-FI Advanced Settings WI-FI Security Settings	Wi-Fi WPS You can quickly conn ()Holp	ect to WI-FI using WI-FI prote	cted setup (WPS).	
WI-FI MAC Filter WI-FI WPS Updates Router	WPS Method 1 Press the WPS butto	n on the device, and click the	PBC Connect button within	2 minutes to connect to Wi-Fi.
Security System	•	F	'BC Connect	
	Method 2 Enter the PIN code g	enerated by the device and cl	ick the Connect button to c	onnect to WI-FI.
	Nutria 2		Connect	
	Method 3 Enter the PIN code g	enerated by your router on the	e device to connect to Wi-F	i.

Figure 28 Wi-Fi WPS Settings

Connecting a Terminal Device to a Sunrise Internet Box 5G Through PBC

With Push Button Configuration (PBC), you can simply press the WPS button on your device to connect to your **Sunrise Internet Box 5G**'s Wi-Fi

Procedure

Step 1 On the Sunrise Internet Box 5G's web UI, go to Advanced > Wi-Fi > Wi-Fi WPS.

N	010	
	ole	

Enable or disable the WPS switch on the right side of **WPS**. You cannot configure the WPS connection if WPS is disabled. Apple devices don't supports WPS

Step 2 Click PBC Connect.

Note	
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See your device's user guide for detailed operation instructions. Click **PBC Connect** within two minutes after you press the WPS button on the device. Apple devices don't supports WPS

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ி Home ⊕ Net	twork Settings	奈 Wi-Fi Settings	윥 Devices	Tools	🗿 Advanced
Wi-Fi Advanced Settings Wi-Fi Advanced Settings Wi-Fi Security Settings Wi-Fi MAC Filter Wi-Fi WPS Updates	•	Wi-Fi WPS You can quickly connect to Wi-Fi usin (?) Help WPS	g Wi-Fi protected setup (\	WPS).	
Router Security VoIP System	•	Method 2	PBC Connec	t	

Figure 29 Wi-Fi WPS connection through PBC

Using AP PIN to connect to the Sunrise Internet Box 5G

Simply enter the **Sunrise Internet Box 5G**'s PIN code in the app to securely connect to the **Sunrise Internet Box 5G**'s Wi-Fi, and access the Internet.

Procedure

Step 1 Connect your computer to the Sunrise Internet Box 5G's Wi-Fi network (or connect the computer to the Sunrise Internet Box 5G's LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your Sunrise Internet Box 5G's web-based management page. Go to Advanced > Wi-Fi > Wi-Fi WPS

Note

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Enable **WPS** on the right side of **WPS**. WPS connection is not available if **WPS** is disabled. This method is generally supported on PCs or laptops with a wireless network adapter, but not supported on phones

Step 2 Enable PIN.

- Step 3 To obtain the PIN code:
 - Click **Generate PIN**. On the **Sunrise Internet Box 5G**'s web-based management page, find and memorize the randomly assigned PIN code.
 - Click **Reset PIN**. Find and memorize the **Sunrise Internet Box 5G**'s PIN code.
- Step 4 Open network settings on your PC, and set WPS connection to AP PIN (exact operation may vary with different PCs).

Step 5Enter the generated PIN code from the Sunrise Internet Box 5G.When the device is connected to the Sunrise Internet Box 5G's Wi-Fi, the SunriseInternet Box 5G's Wi-Fi indicator will turn from flashing to steadily lit.

For setting the W	/PS on remot	e device please r	efer to the devi	ce user guid	le.
nd					
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∯ Home ∰			<mark>ጽ</mark> Devices	🖶 Tools	🐼 Advanced
Wi-Fi Wi-Fi Advanced Setting Wi-Fi Security Settings Wi-Fi MAC Filter Wi-Fi WPS Updates Router Security VolP System	s Wi	LFi WPS u can quickly connect to Wi-Fi us Help PS thod 1 ss the WPS button on the devic thod 2 ler the PIN code generated by th Enter	e, and click the PBC Connect PBC Connect e device and click the Connect the PIN code generated by th	VPS). t button within 2 minu ect button to connect t he device	tes to connect to Wi-Fi.
			Connect		
	Me	thod 3 er the PIN code generated by ye	our router on the device to co	onnect to Wi-Fi.	
	PIN)		
	PIN	I Code 73223	269		
			Reset PIN		

Figure 30 Wi-Fi WPS connection through generated AP PIN

3.9.7 Setting Wi-Fi MAC Address Filtering

By filtering MAC addresses, you can manage client device access permission and thereby improve your Wi-Fi network security.

Wi-Fi MAC Filter is to allow or block a device from accessing your **Sunrise Internet Box 5G** through Wi-Fi.

Procedure

- Step 1 Choose Advanced > Wi-Fi > Wi-Fi MAC Filter
- Step 2 Enable Wi-Fi MAC Filter
- Step 3 Select a filtering mode
 - Allow: If a client MAC address is in the MAC address list, the client is allowed to connect to the Sunrise Internet Box 5G through Wi-Fi
 - Block: If a client MAC address is in the MAC address list, the client is not allowed to connect to the Sunrise Internet Box 5G through Wi-Fi
 - Note: if the MAC address of device are in allow or block list then device is allowed to have access services from Sunrise Internet Box 5G
- Step 4 In the Wi-Fi MAC Address List, click New. In the displayed dialog box, select Host and set MAC address
- Step 5 Click Confirm

----End

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Wi-Fi Wi-Fi Advanced Se Wi-Fi Security Setti	Wi ttings Set ngs	i-Fi MAC Filter t the WI-Fi MAC Filter to allo Help	ow or block a device from	accessing your router through W	1-Fi.
WI-FI MAC Filter WI-FI WPS Updates	Wi-	-Fi MAC Filter	Allow O	Block	
Router			Wi-Fi MAC Add	ress List	+
Security	▲ 5	Serial Number	Device Name	MAC address	Options
VoIP	*				
System	•				

Figure 31 Wi-Fi MAC Address Filtering

- 1. Click **Devices** and check the MAC address of the client to be allowed to access the Wi-Fi network, for example, 40:4D:8E:6D:80:7D
- 2. Choose Advanced > Wi-Fi > Wi-Fi MAC Filter. Set Filter mode to Allow
- 3. Click New. In the MAC address: text box, enter 40:4D:8E:6D:80:7

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WI-Fi WI-Fi Advanced Settings WI-Fi Security Settings WI-Fi MAC Filter WI-Fi WPS Updates	VWi Sef (7) Wi- Filt	-Fi MAC Filter the Wi-Fi MAC Filter to : Help Fi MAC Filter er mode	allow or block a device f	rom accessing your router throu	gh Wi-Fi.	
Router	•		Wi-Fi MAC	Address List	[+
Security	▲ s	Serial Number	Device Name	MAC address	0	ptions
VoIP	•					

Figure 32 Allowing a Specified Client to Access the Wi-Fi Network

4. Click Confirm.

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WI-FI WI-FI Advanced Set WI-FI Security Settin WI-FI MAC Filter	Wi-Fi MAC F Set the Wi-Fi M () Help	Filter AC Filter to allow or block a	device from accessing	your router through	WI-FI.	
Wi-Fi WPS	· · ·	Add a Wi-Fi MAC Addre	SS]		
Updates Router	Device Name	Anonymous device		•	+	
Security	MAC address	MAC address format: XX			Options	
System	Cancel		ОК			

Figure 33 Add a Wi-Fi MAC Address

3.10 DHCP Settings* (not supported Sunrise service)

Note: configuration and potential issues related to Dynamic Host Configuration Protocol (DHCP) are not part of Sunrise Customer Services support

3.10.1 Enabling the DHCP Server

If the Dynamic Host Configuration Protocol (DHCP) server is enabled, the **Sunrise Internet Box 5G** allocates IP addresses to clients connected to it.

Context

- **DHCP IP range** and **DHCP lease time** are available to be set only when the DHCP server is enabled.
- After the DHCP server is enabled, enable the function to automatically obtain an IP address and a DNS server address from clients.

Procedure

- Step 1 Choose Advanced > Router > DHCP
- Step 2 In LAN IP address, enter the two last digits of the Sunrise Internet Box 5G's IP address
- Step 3 On the DHCP server right click on the button to enable the DHCP server



On is enabled.

Step 4 In DHCP IP range, enter the last digit of the start IP address and the end IP address

Step 5 In DHCP lease time, enter a lease time

Step 6 Click Save

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Wi-Fi		DHCP				
Updates Router	•	LAN IP address	192	. 168 . 8 .	1	
DHCP		DHCP server				
DDNS Bridge Mode		DHCP IP range	192.168.	8 . 100 -	8 . 200	
VPN		DHCP lease time	1 day		Ŧ	
Security	•					
VoIP	*					
System	*		IP and	MAC Address Bind	ing List	+
		Serial Number	IP address	Device Name	MAC address	Options

Figure 34 Enabling the DHCP Server

3.10.2 Disabling the DHCP Server

If the Dynamic Host Configuration Protocol (DHCP) server is disabled, the **Sunrise Internet Box 5G** does not allocate IP addresses to clients connected to it and IP addresses must be entered from each client.

Procedure

- Step 1 Choose Advanced > Router > DHCP
- Step 2 Disable DHCP server
- Step 3 Click Save

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₩Home	Wetwork Settings			ぷ Devices	B Tools	🚯 Advanced
Wi-Fi		DHCP				
Updates						
Router	•	LAN IP address	192	168 . 8 .	1	
DHCP		DHCP server				
DDNS						
Bridge Mode						
VPN						
Security						
VoIP						
System	*					

Figure 35 Disabling the DHCP Server

3.10.3 Configuring DHCP Clients

If the Dynamic Host Configuration Protocol (DHCP) server is enabled, certain settings must be configured on clients.

Context

The following describe how to configure DHCP settings on a computer running Windows 7 as an example.

Procedure

- Step 1 Choose Start > Control Panel
- Step 2 From the Viewed by drop-down list, choose Category
- Step 3 Choose Network and Internet > Network and Sharing Center > Change adapter settings > Wireless Network Connection
- Step 4 Right click the network icon that you want to configure and choose **Properties**
- Step 5 On the Networking tab page, choose Internet Protocol Version 6 (TCP/IPv6) or Internet Protocol Version 4 (TCP/IPv4), and then click Properties
- Step 6 On the Internet Protocol 6 (TCP/IPv6) Properties dialog box, select Obtain an IPv6 address automatically and Obtain DNS server address automatically. Or on the Internet Protocol 4 (TCP/IPv4) Properties dialog box, select Obtain an IP address automatically and Obtain DNS server address automatically
- Step 7 Click OK

3.10.4 Bind IP and MAC address

After connecting to a LAN, you can assign a static IP address to the designated device.

Procedure

- Step 1 Choose Advanced > Router > DHCP
- Step 2 Click New, fill in your designated IP address and the MAC address of your device in the IP and MAC Address Binding List table
- Step 3 Click Save

----End

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Wi-Fi	▲ DHC	Ρ				-
Router	🚽 LAN II	Paddress 192	. 168 . 8 .	1		
DDNS		Bind IP and MAC a	address			
Bridge Mode	IP address	192 . 168	. 8 .			
Security	Device Name	Anonymous device	ce	Ŧ		
VoIP System	MAC address	MAC address form	at: XX:XX:XX:XX:XX:XX			
		Cancel	Save		+ Options	

Figure 36 Bind IP and MAC address Settings

3.11 Security Settings

3.11.1 Enabling or Disabling the Firewall

The **Sunrise Internet Box 5G** supports the firewall function to control the transmission of data streams and protect your local area network from unauthorized access.

Procedure

- Step 1 Choose Advanced > Security > Firewall
- Step 2 Select Enable firewall to enable the firewall or clear it to disable the firewall.



- Step 3 Select Enable IP address filter to enable the function of filtering IP addresses
- Step 4 Select Disable WAN port ping to disable the ping function
- Step 5 Select Enable domain name filter to enable the function of filtering URLs
- Step 6 Select Enable MAC filter to enable the MAC filtering function
- Step 7 Click Save
 - ----End

火 HUAWE	El			Language -	个日常	
₩ome	Wetwork Settings	奈 Wi-Fi Settings	윥 Devices	B Tools	🐼 Advanced	
Wi-Fi Updates Router Security Firewall MAC Address Fil IP Filter Virtual Server Special Application DMZ Settings SIP ALG Settings UPnP Settings NAT Settings Static Routes	↑ Fir You ↓ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥	ewall a can enable or disable the firev Enable firewall Enable IP address filter Disable WAN port ping Enable domain name filter Enable MAC filter	wall and its filters here.			

Figure 37 Firewall Settings

3.11.2 Configuring LAN IP Filter

This feature allows user to block/whitelist specific devices connected to the LAN from accessing certain Internet services.

Prerequisite

Ensure that the LAN IP filter is enabled.

Context

TCP/IP for apps

Protocol	Default Port	Service
HTTP	80	Browsing www web pages
SMTP	25	Sending emails
POP3	110	Receiving emails
FTP	21	Transferring files
TELNET	23	Remotely logging into a computer

Note

C

Contact your service provider if you are unsure of the service port.

Procedure

- Step 1 Go to Advanced > Security > IP Filter
- Step 2 Select Filter mode Blacklist to block and Whitelist to allow IP to access the trusted IP
- Step 3 Click New, and configure settings on the pop-up page according to your needs.
- Step 4 User can Block/Whitelist the device either from device drop down or by entering device IP address (LAN IP Address)

Note

- Edit: Modify selected items in the list
- Delete: Delete selected items in the list

Step 5 Click Save

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∯Home	Wetwork Setting			윦 Device	es 🚦		@ A	dvanced
Wi-Fi Updates	*	IP Filter Filter packets using t	he following rule	es specified with pro	otocol, port and	IP address.		
Router Security Firewall	•	Filter mode	O BI	acklist	Whitelist			
MAC Address Fil	ter			IP Filte	r			+
IP Filter		LAN IP Address	LAN Port	WAN IP Address	WAN Port	Protocol	Status	Options
Virtual Server								
Special Application	ons							
DMZ Settings								
SIP ALG Settings	\$							
UPnP Settings								
NAT Settings								
Static Routes								
Domain Filter								
VoIP								
System								

Figure 38 LAN IP Filter

火 HUAWE	l			Language -	
					O Advanced
Wi-Fi	↑ IP Filt	er			
Updates	Filter pa	ckets using the following rule:	s specified with protocol,	port and IP address	
Router		Add IP Filter	r		
Security					
Firewall	IP type	IPv4		Ŧ	
MAC Address Filte	Protocol	TCP/UDP		Ŧ	+
IP Filter					Status Options
Virtual Server	Device	Anonymous devi	ce	Ŧ	
Special Application	LAN IP Address				
DMZ Settings		Supports single or character (*) support or xxx.xxx.xxx.* are	group IP addresses. Wild orted. For example: xxx.xx e both valid	Icard IX.XXX.XXX	
SIP ALG Settings	LAN Port				
UPnP Settings	<u>Lutton</u>	Single or set of por as xxx or xxx-xxx	ts (separated by hyphen	"-"), such	
NAT Settings					
Static Routes					
Domain Filter	C	Cancel	Save		
VoIP	*				

Figure 39 LAN IP Filter Settings

Blocking a Wi-Fi device from accessing certain websites

To block a Wi-Fi device from accessing internet

- 1. Go to Advanced > Security > IP Filter
- 2. Click **New**, and configure the settings on the pop-up page

Status	Select On
IP type	Select IPv4
Protocol	Select TCP/UDP.
	NOTE If you don't know the protocol type, select TCP/UDP , and the Sunrise Internet Box 5G will automatically select a matching protocol.
Device	Dropdown with list of devices currently connected or connected in past
LAN Port	Enter 80
LAN IP Address	You can view the IP addresses of clients connected to the Sunrise Internet Box 5G on the Devices page. If the user select the Device from Device drop down the IP is auto populated in this field

3. Click Save

3.11.3 Configuring a Virtual Server* (not supported Sunrise service)

Note*: configuration and potential issues related to Virtual Server are not part of Sunrise Customer Services support

Note**: Due to Network Address Translation (NAT) remote access to **Sunrise Internet Box 5G** is not possible.

The **Sunrise Internet Box 5G** supports the virtual server to enable external users to use the services provided in the local area network (LAN) using the Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP), and other protocols.

Procedure

Step 1 Choose Advanced > Security > Virtual Server

Step 2 Click New and set the parameters

Step 3 Click Save to save the settings

Note

• Edit: to edit an item.

• Delete: to delete an item.

Step 4 Click Status for the settings to take effect.

----End

Configuring an FTP Server

To enable a client to provide FTP services and be accessed by external users, do the following:

1. Configure a virtual server

Name	Protocol	WAN Port	LAN IP Address	LAN Port
My FTP server	ТСР	21–22	Enter the IP address	23–24

- Choose Advanced > System > Device Information, view the wide area network (WAN) IP address of the Sunrise Internet Box 5G. For example 10.2.1.123
- 3. In the browser of an external user, enter the FTP server address (**ftp://10.2.1.123**) and access the FTP services provided by the client

Note



If the default service port is 21-22, the external user should enter **ftp://10.2.1.123:21** or **ftp://10.2.1.123:22** to access the FTP server.

Wi-Fi Updates	 Virtual Configu LAN. 	Server re a virtual server to enable e	xternal computers to acc	ess WWW, FTP or o	other services provided by the	
Security		Add Virtual Ser	ver			
Firewall	Name			_	+	
MAC Address Filter	Protocol	TCP/UDP		Ŧ	Status Options	
Virtual Server	WAN Port					
Special Applications DMZ Settings	Device	Anonymous devi	ce	Ŧ		
SIP ALG Settings	LAN IP Address					
UPnP Settings	LAN Port	•				
Static Routes		Cancel				
Domain Filter						
VoIP	*					
System	•					

Figure 40 Virtual Server Settings

3.11.4 Configuring a Special Application* (not supported Sunrise service)

Note: configuration and potential issues related to Special Application are not part of Sunrise Customer Services support

The **Sunrise Internet Box 5G** supports the function to use a special application to configure dynamic port forwarding. Certain applications in the local area network (LAN) must use a specified port of the firewall to access remote applications. To set up a Transmission Control Protocol and User Datagram Protocol (TCP/UDP) connection between an application in the LAN and a remote application, the firewall uses this port forwarding function to open the required port.

Procedure

Step 1 Choose Advanced > Security > Special Applications

- Step 2 Click New and set the parameters
- Step 3 Click **Save** to save the settings

Note

• Edit: to edit an item

• **Delete**: to delete an item

Step 4 Click Status for the settings to take effect

----End

Example of the Configuration of a Special Application

A client in the LAN uses TCP to access the MSN game server through port 47624. When the game starts, the game server uses TCP and port 2400 to set up a connection to the client that tries to access the server. In this case, you must configure dynamic port forwarding, because the game conflicts with the following default firewall rules:

- The firewall blocks external data input.
- The game server can send a connection request to the external IP address of the Sunrise Internet Box 5G but cannot send the request to the LAN client that tries to access the game server, because the IP addresses of clients are not open to external devices.

To solve this problem, you must define a set of port forwarding rules. When the client in the LAN sends data to TCP port 47624, the rules allow data input from TCP port 2400. Then data from the game server can be received from and transmitted to the LAN client that sends data to TCP port 47624.

Name	Trigger Protocol	Trigger Port	Open Protocol	Open Port
MSN Gaming Zone	ТСР	47624	ТСР	2400

Note

For details about **Trigger Protocol**, **Trigger Port**, **Open Protocol**, and **Open Port**, contact your service provider.

火 HUAWEI				Language -	$ \uparrow$	∃ ∛
Wi-Fi Updates Router	Spec Config phone (?) H	ial Applications ure parameters to allow the use over the LAN. elp	of special applications,	such as online game	s, video conf	erencing, or IP
Security		Add Special Applic	ations			
Firewall	Name			_		+
MAC Address Filter					Status	Options
IP Filter	Trigger Protocol	TCP/UDP		Ŧ		
Virtual Server	Trigger Port					
Special Application	s	Can only be a singl	e port			
DMZ Settings	Open Protocol	TCP/UDP		¥		
SIP ALG Settings	Open Port					
UPnP Settings		Supports single, a A range of ports are	ange, and multiple range e separated by a dash (-)	es of ports.), and		
NAT Settings		(;), such as "xxx; xx ports are supported	x-xxx; xxx-xxx". Up to 5	ranges of		
Static Routes						
Domain Filter		Cancel	Save			
VoIP	*					
System						

Figure 41 Special Applications Settings

3.11.5 Setting the DMZ* (not supported Sunrise service)

Note: configuration and potential issues related to DeMilitarized Zone (DMZ) are not part of Sunrise Customer Services support

DMZ is an acronym for the demilitarized zone in networks.

DMZ is a logical subnetwork that contains and exposes external-facing services to an untrusted network (e.g. Internet). The purpose of a DMZ is to add an additional layer of security to local area network (LAN) -> an external network node can access only what is exposed in the DMZ, while the rest of the network is firewalled. If external users cannot access certain network services provided by the local area network (LAN), use the DMZ function provided by the **Sunrise Internet Box 5G** to set the client that provides the required network services as the DMZ host; external users can then access these services properly.

Prerequisite

DMZ users are not protected by the firewall and may be easily attacked. In addition, the security of other users in the LAN is compromised.

Procedure

- Step 1 Choose Advanced > Security > DMZ Settings
- Step 2 Enable or disable DMZ status

Step 3 In DMZ host IP address, enter the IP address of the client to be set as the DMZ host



Only a single client can be set as the DMZ host at a time

Step 4 Click Save

🖢 HUAWEI			Language +	个 🖻 🔅
ome 🌐 Network Settin	gs 🛛 🥱 Wi-Fi Settings	운 Devices		🐼 Advanced
Fi 🔹	DMZ Settings You can set up a computer in a loca network and can be accessed direct DMZ host will not work.	II area network as a DMZ h Ity from devices on the WAI	ost, which will be expo N. Note: The firewall se	sed to a wide area titings associated with the
urity -	DMZ status)		
MAC Address Filter	Device BAD	4717106	Ţ	
IP Filter	DMZ host IP address 192.	168.8.100		
Virtual Server				
Special Applications DMZ Settings		Save		
SIP ALG Settings				
UPnP Settings				
NAT Settings				
Static Routes				
Domain Filter				
/oIP				
System 🔺				

Figure 42 DMZ Settings

3.11.6 Setting the SIP ALG

Note: Sunrise is not supporting 3rd party VoIP / SIP client

The Session Initiation Protocol (SIP) is a control protocol at the Application Layer. It is used to initiate, change, or end a session. An application-level gateway (ALG) is a specific application of SIP and is used to check the status of data packages. To complete a SIP application, enable the SIP ALG.

Procedure

- Step 1 Choose Advanced > Security > SIP ALG Settings
- Step 2 Enable or disable SIP ALG status
- Step 3 In SIP port, enter the SIP port number provided by your service provider
- Step 4 Click Save

----End

Mi-Fi Updates Router Security Firewall SP ALG status Firewall SiP ALG status Security Vrtual Server Special Applications DMZ Settings SIP ALG Settings SiP ALG Settings Save	火 HUAWI	EI			Language -	↑ ⊡ ※
Wi-Fi - Updates - Router - Security - Firewall SIP ALG status MAC Address Filter - IP Filter - Virtual Server - Special Applications - DMZ Settings - SIP ALG Settings - NAT Settings - Static Routes - Domain Filter -	☆ Home	Wetwork Settings	🛜 Wi-Fi Settings	옩 Devices	B Tools	O Advanced
Security SIP ALG status Firewall SIP port MAC Address Filter IP Filter Virtual Server Special Applications DMZ Settings SIP ALG Settings NAT Settings Static Routes Domain Filter	Wi-Fi Updates Router	SIF The appl	PALG Settings modem supports the SIP ALG f ications.	unction. The SIP application	n can run and commu	nicate with other Internet
Firewall SIP port 5060 MAC Address Filter Sinve IP Filter Save Virtual Server Sinve Special Applications Sinve DMZ Settings Sinve UPnP Settings Sinve Static Routes Sinve Domain Filter Sinve	Security	▼ SIP	ALG status)		
IP Filter Save Virtual Server Special Applications DMZ Settings UPnP Settings NAT Settings Static Routes Domain Filter	Firewall MAC Address Fi	SIP	port 5060)		
Virtual Server Special Applications DMZ Settings SIP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter	IP Filter			Save		
Special Applications DMZ Settings SIP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter	Virtual Server					
SIP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter	Special Applicat	ions				
UPnP Settings NAT Settings Static Routes Domain Filter	SIP ALG Setting	15				
Static Routes Domain Filter	UPnP Settings					
Domain Filter	Static Routes					
	Domain Filter					
VolP	VoIP					

Figure 43 SIP ALG settings

3.11.7 Setting the UPnP* (not supported Sunrise service)

Note: configuration and potential issues related to Universal Plug and Play (UPnP) service are not part of Sunrise Customer Services support

The Universal Plug and Play (UPnP) service realizes intelligent connection between two UPnP devices using port forwarding. UPnP devices can obtain IP addresses automatically and access the Internet dynamically.

Procedure

- Step 1 Choose Advanced > Security > UPnP Settings
- Step 2 Select UPnP status to enable or disable the UPnP service

火 huaw	EI					Language •	11 🖸 🏯
分Home				ቶ [BB Tools	🐼 Advanced
Wi-Fi Updates	•	UPnP Settings The Universal Plug port forwarding. U	and Play (UPnP PnP devices car) service allo n obtain IP ad	ows intelligent co Idresses automa	nnection between tically and access t	two UPnP devices using the Internet dynamically
Router Security Firewall MAC Address	Filter	UPnP status	When Currer param auther	disabled, Lin htty, UPnP us eters are co htication auth	k+ will be automa es the http protoc nfigured through entication will no	atically turned off. col. When the UPNP, t be performed.	
IP Filter			l	JPnP Por	t Mapping Lis	it	
Virtual Server	tions	Remote Address	Local Address	Protocol	External Port	Internal Port	
DMZ Settings		boonpion					
SIP ALG Settin	gs						
UPnP Settings							
NAT Settings							
Domain Filter							
System	•						

Figure 44 UPnP Settings

3.11.8 Configuring NAT* (not supported Sunrise service)

Note: configuration and potential issues related to Network Address Translation (NAT) are not part of Sunrise Customer Services support

Network address translation is the process of modifying source and destination IP addresses when IP packets are transmitted across a **Sunrise Internet Box 5G** or firewall. The purpose of this process is to translate internal (private) IP addresses into external (public) IP addresses to provide a solution to the impending exhaustion of IP addresses. **Sunrise Internet Box 5G** supports port-restricted cone NAT and symmetric NAT. You can configure the NAT settings as required.

Procedure

Step 1 Choose Advanced > Security > NAT Settings

Step 2 Select from the following options:

- Cone: to enable port-restricted cone NAT. This type of NAT are more compatible with applications (including applications on game devices), although it provides lower security
- **Symmetric**: to enable symmetric NAT. This type of NAT are generally adopted by gateways with higher security.

火 HUAWE	1			Language -	↑ 🖸 🔆	
₩Home	H Network Settings		욵 Devices	B Tools	Advanced	
Wi-Fi Updates Router Security Firewall MAC Address Filt IP Filter Virtual Server Special Application DMZ Settings	ter	VAT Settings Symmetric NAT is often deployed in Cone NAT provides a lower level of s inarning devices. VAT mode Syr	iateways with higher secu security, but is more compa nmetric O Cone	irity requirements. atible with applications,	including those on	

Figure 45 NAT Settings

3.11.9 Filtering Specified Websites

The Sunrise Internet Box 5G enables you to specify and filter undesirable websites.

Procedure

- Step 1 Choose Advanced > Security > Domain Filter
- Step 2 Click New
- Step 3 In Domain Name, enter the address of the website you want to filter
- Step 4 Click OK
- Step 5 Click Save

----End

Home Image: Cancel Wi-Fi Updates Configure the filter settings to restrict computers in the local area network from accessing certain websites. Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Router Security Frewall MAC Address Filter IP Filter Virtual Server Special Applications Domain Name DMZ Settings Static Routes Domain Filter VolP	We huawei		Language	· ↑ 🕀	22
Wi-Fi Domain Filter Updates Configure the filter settings to restrict computers in the local area network from accessing certain websites. Router Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Security Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Image: Configure the filter settings to restrict computers in the local area network from accessing certain websites. Image: Configure the filter MAC Address Filter Image: Configure the filter Virtual Server Special Applications Domain Name Dury Settings Static Routes Domain Filter VolP					
Frewall AC Address Filter MAC Address Filter Domain Name Status Options IP Filter Add Domain Name Filter Virtual Server Special Applications Domain Name DMZ Settings SiP ALG Settings Static Routes Domain Filter VoIP VoIP Static Routes	Wi-Fi Updates Router	Domain Filter Configure the filter settings to restrict () Help	computers in the local area network from an	ccessing certain webs	ites.
MAC Address Filter IP Filter Virtual Server Special Applications DMZ Settings UPnP Settings NAT Settings Static Routes Domain Filter VolP Sustam	Firewall		omain Name Filter List		+
IP Filter Vritual Server Special Applications Dm2 Settings SiP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter VoIP A Sustem	MAC Address Filter	Do	main Name	Status Opt	tions
Special Applications Domain Name DM2 Settings UPhP Settings NAT Settings Static Routes Domain Filter VoIP	IP Filter Virtual Server	Add Domain Nam	e Filter		
DMZ Settings SIP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter VoIP	Special Applications	Domain Name			
SIP ALG Settings UPnP Settings NAT Settings Static Routes Domain Filter VoIP	DMZ Settings				
UPnP Settings NAT Settings Static Routes Domain Filter VoIP Sustem	SIP ALG Settings	Cancel	Save		
NAT settings Static Routes Domain Filter VoIP	UPnP Settings				
Domain Filter VoIP Sustem	NAT Settings				
VolP	Domain Eilter				
Suctom	VoIP				
System •	System	、			

Figure 46 Filtering Specified Websites

3.11.10 Setting the DDNS* (not supported Sunrise service)

Note: configuration and potential issues related to Dynamic Domain Name Service (DDNS) are not part of Sunrise Customer Services support

Dynamic Domain Name Service (DDNS) is a system for mapping a dynamic IP address on a fixed DNS. When the DDNS is enabled, the **Sunrise Internet Box 5G** will associate its dynamic WAN IP to a fixed domain name. Then, **Sunrise Internet Box 5G** services can be accessed through the fixed domain name at anytime, anywhere, without needing to track the **Sunrise Internet Box 5G**'s WAN IP.

Procedure

- Step 1 Choose Advanced > Router > DDNS
- Step 2 Click New

Step 3 In the displayed dialog box, set the DDNS parameters

Note



The user name and password must be registered on the DDNS service provider website

Step 4 Click Save

Note



To enable or disable settings of a record, set **Status** of the record to on or off, respectively. To delete the selected record, click **Delete**.

火 HUAWEI				Language -	↑ 🖻 😤
\Home					🚯 Advanced
Wi-Fi Updates Router	DDN: Dynam the DD service routers	S ic Domain Name Service (DDN S is enabled, the router will as s can be accessed through the WAN IP.	(S) is a system for mapping a sociate its dynamic WAN IP fixed domain name at any tir	a dynamic IP addre: to a fixed domain r me, anywhere, with	ss on a fixed DNS. When name. Then, router out needing to track the
DDNS		Add DDNS			+
Bridge Mode	Service Provider	DynDNS.org		*	s Options
Security	Domain Name				
VolP	User name				
System	Password				
		Cancel			

Figure 47 DDNS Settings

Example

To share large files or videos with Internet users:

- 1. Register the DDNS user name and password on the DDNS service provider website. In this example, the DDNS service provider website is http://www.dyndns.org/, and the registered user name and password are both admin
- 2. In the displayed dialog box, set the parameters as follows

Service Provider	Domain Name	User name	Password
DynDNS.org	www.abc.com	admin	admin

- 3. Click Save
- 4. Internet users will then be able to access your resources by accessing **www.abc.com** from their browsers

3.11.11 Blocking a Device

Sunrise Internet Box 5G's MAC address filter allows you to block a connected device from accessing other devices on the Sunrise Internet Box 5G's network or from accessing the Internet.

Procedure

- Step 1 Go to Advanced > Security > MAC Address Filter
- Step 2 Select Filter mode:
 - Allow: If a device's MAC address is in the MAC address list, the device can connect to the Sunrise Internet Box 5G
 - Block: If a device's MAC address is not in the MAC address list, the device will be denied access to the Sunrise Internet Box 5G
- Step 3 Click New, and configure settings on the pop-up page according to your needs
- Step 4 From Host, select the device you want to block
- Step 5 Enter the device's MAC address into MAC address
- Step 6 Click Save

% HUAWE	1			Language -	↑ ⊡ ※
					🔯 Advanced
Wi-Fi Updates Router	* MAC , Set the •	Address Filter MAC Filter to allow or block Inf Ip	ternet access from a devi	CĐ.	
Security	Eiltorm		N 🦰 Block		
Firewall		MAC Address Fi	Iter		
MAC Address Fill	ter				+
IP Filter	Host	Anonymous device	e	Ŧ	Operation
Virtual Server	MAC address	MAC address forma	+ XX-XX-XX-XX-XX-XX-XX		
Special Application	ons	Mino address forma	IL AA.AA.AA.AA.AA.AA		
DMZ Settings					
SIP ALG Settings		Cancel	OK		
UPnP Settings					
NAT Settings					
Static Routes					
Domain Filter					
VolP					
System	A				



3.11.12 Parental Control

The Wi-Fi timer function helps you manage the time you and your family spend online. When the timer is enabled, family members will only be able to access the Internet during set time periods.

Procedure

Step 1 Go to Tools > Parental Control

- Step 2 User can select time duration of recruiting internet access
- Step 3 Repeats help user to configure the blocking is to be repeated on selected days
- Step 4 Enable on Device will block the internet access on check devices
- Step 5 Click and configure settings according to your needs

🧶 HUAW	EI			Language -	↑ 🗄 ※
₩Home	Wetwork Settings	🛜 Wi-Fi Setting	gs දී Devices	Tools	🚯 Advanced
Statistics Parental Con	Pai trol Par Inte Note Wet onlin Wet	rental Control ental Control allows you to met environment for your :: When the start time is la Help basite filtering helps you res ne. D Filter	manage website access and tim family (especially minors). Iter than the end time, Parental C trict and filter which websites you	e limits for family men ontrol will be set to m r family members car	nbers, ensuring a safe ulti-day mode. n access when they are
		Device Name	Internet Access Time C-	ontrol Permitted	+ Operation

Figure 49 Parental Control Settings
Ś	MUAWEI				Language -	↑ 🗄 🔆
		Network Settings				
	Statistics Parental Control		Parental Control Parental Control allows you to manage v Internet environment for your family (esp Note: When the start time is later than th	vebsile access and time becially minors). le end time, Parental Co	a limits for family membe	rs, ensuring a safe -day mode.
	L	Time Repeats	Internet Access Time	to 00 Thu Fri	: 00 ¥	ey are
	L	Enable on selected devices	BA04717106(00:E0:4C:43	:12:8F)[This device] (7C:76:68:4B:D9:39)		
	Ŀ		Cancel	OK		

Figure 50 Internet Access Time Control

3.12 System Management

3.12.1 Viewing the device's Information

This section describes how to view the information about the device.

Procedure

- Step 1 Choose Advanced > System > Device Information
- Step 2 View the device's information

----End

∰Home ∰N	Network Settings	s 🗢 🎅 Wi-Fi Sett	ings 🔗 Devices	B Tools	O Advanced	
WI-Fi Updates Router Security System Device Information Restart Reset One-click Check Diagnosis Modity Password PN Code Management Time Settings System Settings	•	Device Information Device name Serial number MEI MSI My number Hardware version Software version Configuration file version LAN IMAC address WANI Pv6 Address WANI Pv6 Address CELL_D RSR0 RSR9 RSSI SNR Wreless transmt power Uplink medidemed of MCS Downkin medidemed of MCS Nexuen	H112-370 7JK7N19618000015 86720604482098 228021504748483 Unknown WL1H112W VerA 10.0.11(H3125P3C154) WEBUI 10.0.11(W2SP8C154) H112-370-CUST 8.0.12(C154) FC-AB:90.91:82.01 100.71.64.252 Unknown 20743940 -10.0dB -89dBm <=-113dBm 3dB PPuach.1dBm PPucch.0dBm PSrs 0 PPuach.0dBm mcsUpCarrier128 mcsDownCarrier1Code13 22802	odbm		

Figure 51 Device Information

3.12.2 Switching Between Languages

This section describes how to switch between the **Sunrise Internet Box 5G**'s user interface languages.

Procedure

- Step 1 Click the drop-down list in upper right corner of the page.
- Step 2 From the language drop-down list, select the desired language.

👋 HUAWEI		Language + ↑ 🔁
分 Home ⊕ Network Set		ngs 🖧 Devices English dva
WI-Fi	Device Information	Italiano Français
Router Security System Device Information	Device name Serial number IMEI IMSI	H112-370 7JK7N19618000015 867206040482098 228021504748483
Restart Reset	My number Hardware version	Unknown WL1H112M VerA
One-click Check Diagnosis	Software version Web UI version	10.0.1.1(H312SP3C154) WEBUI 10.0.1.1(W2SP6C154) H112 370 CIIST 8.0.1.2(C154)
Modify Password PIN Code Management	LAN MAC address	FC:AB:90:91:62:01
Time Settings System Settings	WAN IPv6 Address CELL_ID	Unknown 20743940
	RSRQ RSRP	-10.0dB -89dBm
	RSSI SINR Wireless transmit power	<=-113dBm 3dB PPusch:1dBm PPucch:0dBm PSrs:0dBm
	Uplink mod/demod of MCS	PPrach:0dBm mcsUpCarrier1:28

Figure 52 Language Settings

3.12.3 Changing the Password

To prevent unauthorized access to the management page, change the login password.

Procedure

- Step 1 Choose Advanced > System > Modify Password
- Step 2 Enter the current password
- Step 3 Enter a new password and confirm it



The password can only contain numbers, letters, and symbols (English characters only).

Step 4 Click Save

----End

Home Metwork Settings Wi-Fi Updates Router Current password Security New password VolP Letters + numbers recommended Rutes System Confirm password Bare Save Modify Password Pin Code Management Time Settings Wi-Fi Settings Modify Password Changing the login password frequently prevents unauthorized users from modifying configurations. Current password Support VolP Confirm password Bare Support Pin Code Management Time Settings	熢 HUAWE	:1			l	_anguage •	↑ ⊡	*
Wi-Fi A Updates Changing the login password frequently prevents unauthorized users from modifying configurations. Router Current password Security New password VolP Letters + numbers recommended System Confirm password Device Information Save Reset Save One-click Check Diagnosis Modify Password Letters + numbers recommended PIN Code Management Time Settings	Gr Home	Wetwork Settings	s 🛜 Wi-Fi Se	ttings 🔏	Devices		🚫 Advan	ced
Router Current password Security New password VolP Letters + numbers recommended Rules System Confirm password Device Information Restart Rest One-click Check Diagnosis Modify Password PIN Code Management Time Settings	Wi-Fi Updates	•	Modify Password Changing the login passw	ord frequently prever	its unauthorized user	s from modifying (configurations.	
Security New password VolP Letters + numbers recommended System Confirm password Device Information Restart Reset One-click Check Diagnosis Modify Password PIN Code Management Time Settings	Router		Current password					
Volp A Confirm password System Confirm password Device Information Restart Reset One-click Check Diagnosis Modify Password PIN Code Management Time Settings	Security		New password	Letters + numbe	rs recommended	Rules		
Device Information Restart Reset One-click Check Diagnosis Modify Password PIN Code Management Time Settings	System	•	Confirm password	Lottory - Humbe	is recommended	Turus		
Resart Reset One-click Check Diagnosis Modify Password PIN Code Management Time Settings	Device Informatio	on						
One-click Check Diagnosis Modify Password PIN Code Management Time Settings	Restart							
Diagnosis Modify Password PIN Code Management Time Settings	One-click Check							
Modify Password PIN Code Management Time Settings	Diagnosis							
PIN Code Management Time Settings	Modify Password	I						
Time Settings	PIN Code Manag	jement						
	Time Settings							
System Settings	System Settings							

Figure 53 Changing the Password

3.12.4 Restoring Default Settings

After you restore the **Sunrise Internet Box 5G** to its default settings, your personal information will be deleted, and parameters will be restored to their default values.

Procedure

- Step 1 Choose Advanced > System > Reset
- Step 2 Click Reset

st huaw	EI			Language -	↑ ⊡ ※
₩ Home	Metwork Settings		<mark>ഷ്</mark> Devices		🐼 Advanced
Wi-Fi	▲ Res	et			
Updates	All c	onfigurations will be restored to fa	actory settings. Please pro	oceed with caution.	
Router	*				
Security	•		Reset		
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System	•]
Device Informat	tion				
Restart					
Reset					
One-click Check	k				
Diagnosis					
Modify Passwor	rd				
PIN Code Mana	agement				
Line Settings					
System Settings	5				

Figure 54 Restoring Default Settings

3.12.5 Rebooting the Sunrise Internet Box 5G

This section describes how to reboot the Sunrise Internet Box 5G.

Procedure

- Step 1 Choose Advanced > System > Restart
- Step 2 Click Restart



Figure 55 Rebooting the Sunrise Internet Box 5G

3.12.6 Diagnosing Network Connection Exceptions

If the **Sunrise Internet Box 5G** cannot connect to the Internet, use the diagnostics tools to identify the possible causes.

Performing a Ping Test

If the **Sunrise Internet Box 5G** cannot connect to the Internet, perform a ping test to identify the possible causes.

Procedure

- Step 1 Choose Advanced > System > Diagnosis
- Step 2 Select Ping from the Diagnosis method drop-down list box
- Step 3 In the Destination IP address/domain name text box, enter the IP address or domain name, for example www.google.com
- Step 4 Set Timeout period
- Step 5 Click Diagnosis

The diagnostics results are displayed in the **Result** area on the bottom of the page.

火 HUAWI	EI				Language -	↑ ⊡ ※
√ Home	Metwork Settings	🛜 Wi-Fi Set		႕ Devices	B Tools	🚯 Advanced
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Updates						
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Security	Des add	stination IP				
VoIP						
System	Tim	eout period	4			
Device Informat	ion					
Restart				Diagnosis		
Reset						
One-click Check	x					
Diagnosis						
Modify Passwor	d					
PIN Code Mana	igement					
Time Settings						
System Settings	3					



Performing a Traceroute Test

If the **Sunrise Internet Box 5G** cannot connect to the Internet, perform a traceroute test to identify the possible causes.

Procedure

- Step 1 Choose Advanced > System > Diagnosis
- Step 2 Select Traceroute from the Diagnosis method drop-down list box
- Step 3 In the Destination IP address/domain name text box, enter the IP address or domain name, for example 8.8.8.8 or www.google.com
- Step 4 Set Maximum hops and Timeout period
- Step 5 Click Diagnosis

The diagnostics results are displayed in the **Result** area on the bottom of the page.

st huawe	El				Language -	1 1	∋	袋
₼ Home	Hetwork Setting	gs 🗢 🥱 Wi-Fi Set	ttings	<mark>ጽ</mark> Devices	Tools	Ø	Advanc	ed
Wi-Fi Updates	*	Diagnosis Ping and traceroute can h	elp you chec	k the network connection	ı status quickly.			
Router	*	Diagnosis method	Tracer	oute	~			
Security	•	Destination IP	_					
VoIP		address/domain name						
System	•	Maximum hops	30					
Device Information	on	Timeout period	4					
Restart								
Reset				Diagnosis				
One-click Check								
Diagnosis								
Modify Password	i							
PIN Code Manag	gement							
Time Settings								
System Settings								



3.12.7 System logs

Logs record user operations and key running events.

Procedure

- Step 1 Choose Advanced > System > System Settings
- Step 2 Select the corresponding log level from the Display type drop-down list
- Step 3 Select the corresponding log level from the Display level drop-down list



Wi-Fi System Settings Lipdates Intel Roure Intel Security Intel support Lipic can be lipicad bygether to form one large roaming methods. When or threads, they will be spiced to all routers in the network. Now you can ease bether UP-PP function. Please restart your router to ensure Links Vor P Intel Control System Intel Control Restar Set a period of time for the indicator to be off. Restar Set a period of 100 - 05.00(The system will check whether in needs to restart every of easystem). More vick Check Set a period of 100 - 05.00(The system will check whether in needs to restart every of easystem). More vick Check Concatorphage Restar Concatorphage More vick Check Settem restart period of 100 - 05.00(The system will check whether in needs to restart every of easystem). More vick Check Concatorphage Restar Concatorphage System Settings Concatorpha	☆ Home	Wetwork Settings		윦 Devices	Tools	Advanced
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Router Chik+ Recurity Consection Statist support Link+- can be linked togeth password, device login password, de	Updates					
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Logs are in the format of "Time-Type-Level-Content".			System Logs			Expand ~
			Logs record user operations and device Note: Logs are in the format of "Time-T	errors. vpe-Level-Content".		
				yes sore contails.		

Figure 58 System Logs

3.12.8 Setting the Antenna Type

This topic describes how to set the antenna type.

Procedure

Step 1 Choose Advanced > System > System Settings

- Step 2 Select the antenna type from the drop-down list (Auto, Internal, External, Mix)
- Step 3 Click Save

----End

∰ Home	Wetwork Settings		<mark>ጽ</mark> Devices	E Tools	🐼 Advanced
Wi-Fi		System Settings			
Updates					
Router	*	Link+ Routers that support Link+ can be lin	ked together to form one	large roaming network	. When
Security	*	connected, they will share the Wi-Fi i trustlist, time zone, and auto-update changed, they will be synced to all ro	name, password, device lo settings of the main router uters in the network.	ogin password, Wi-Fi b r. If the main router's s	locklist and ettings are
VoIP		Now you can easily move around wh Enabling Link+ will also enable the U	ile staying connected. PnP function. Please rest	art your router to ensu	re Link+
System	•	functions correctly.			
Device Informa	tion	Indicator light			
Restart		Set a period of time for the indicator	to be off.		
Reset					_
One-click Chec	:k	Scheduled restart System restart period:01:00 - 05:00(The system will check whe	other it needs to restart	every 7 days).
Diagnosis					
Modify Passwo	rd	Critical update settings			
PIN Code Man	agement	Allows your router to automatically in	stall critical updates.		
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		Please only use external antennas p they may not work as well, Additiona	ovided by your ISP, Avoid antennas can be purchas	d using other third-part sed from your ISP.	y antennas as
		System Logs Logs record user operations and dev Note: Logs are in the format of "Time	ice errors. -Type-Level-Content".		Expand \lor

Figure 59 Antenna Settings

3.12.9 Update Settings* (not supported Sunrise service)

Note: This function is not recommended nor supported by Sunrise

Once this feature is enabled, you will be able to perform an online update without logging in to the configuration management page.

Context

- The update without login feature is enabled by default on all software versions that support this feature.
- Once enabled, all Wi-Fi users connected to Sunrise Internet Box 5G can update the device without logging in. If you do not wish to let other users perform an update, it is recommended that you disable this feature to avoid security risks.

Procedure

- Step 1 Choose Advanced > System > System Settings
- Step 2 Select Online updates

----End

姚 HUAWEI				Language -	↑ ⊡ ※
🕁 Home	Detwork Settings		ကို Devices	Tools	🚯 Advanced
Wi-Fi Updates Router Security	Sys Link Rout conn trust chan	tem Settings + ers that support Link+ can be lini ested, they will share the Wi-Fi n st, time zone, and auto-update s acd. they will swrued to all row	ked together to form one arme, password, device k lettings of the main route uters in the network.	large roaming network. ogin password, Wi-Fi bi r. If the main router's se	When ocklist and titings are
VoIP System	Now Enab funct	ỹou can easily move around whi ling Link+ will also enable the Ul ions correctly.	le staying connected. PnP function. Please rest	art your router to ensur	e Link+
Device Information Restart	India Set a	ator light period of time for the indicator to	o be off.		
Reset One-click Check	Sche	eduled restart	'he system will check whe	ether it needs to restart	every 7 days)
Diagnosis					
Modify Password PIN Code Managen	Critic Allow	cal update settings rs your router to automatically ins	stall critical updates.		
Time Settings System Settings	Onlii Upda	ne updates Ites do not require logging in			

Figure 60 Online update

3.12.10 Scheduled restart

You can set the system to restart within the specified time period.

Procedure

- Step 1 Choose Advanced > System > System Settings
- Step 2 Select the Scheduled restart check box

----End



Figure 61 Scheduled restart

3.12.11 Enabling Link+* (not supported Sunrise service)

Note: configuration and potential issues related to Link+ are not part of Sunrise Customer Services support

Link+ enables interconnection between devices.

Procedure

- Step 1 Choose Advanced > System > System Settings
- Step 2 Enable Link+

----End

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∰ Home ⊕ Network Setting	ේ 🛜 Wi-Fi Settings 🖧 Devices	
Wi-Fi • Updates Router • Security •	System Settings Link+ Routers that support Link+ can be linked together to form one large trustlist, time zone, and auto-update settings of the main router. If t home of the will be evened to all conters to the network.	a roaming network. When password, Wi-F tolockitist and he main router's settings are
VoIP 🔺	Changed, they will be synchronian rotations in the network. Now you can easily move around while staying connected. Enabling Link+ will also enable the UPnP function. Please restart y functions correctly.	our router to ensure Link+
System 🔹	lancaons correcay.	
Device Information	Indicator light	
Restart	det a period of anne for the moleator to be on.	
Reset	Calculation rootest	
One-click Check	System restart period:01:00 - 05:00(The system will check whether	r it needs to restart every 7 days).
Diagnosis		
Modify Password	Critical update settings	
PIN Code Management	Allows your router to automatically install critical updates.	
Time Settings	Online updates	
System Settings	Updates do not require logging in	_

Figure 62 Link+

3.13 Configuring Time Services

3.13.1 Enabling SNTP

Enable SNTP (Simple Network Time Protocol) to sync the **Sunrise Internet Box 5G** to the server time.

Procedure

- Step 1 Go to Advanced > System > Time Settings
- Step 2 Enable SNTP
- Step 3 Select Primary NTP server, the preferred server to sync to
- Step 4 Select Primary NTP server, the alternative server to sync to
- Step 5 Select Local time zone
- Step 6 Click Save

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介 Home	Metwork Settings	ः 🛜 Wi-Fi Se	ttings 🖧 Devices	Tools	O Advanced
Wi-Fi Updates	•	Time Settings The time settings will syno	chronize the router with the network t	ime to ensure time accu	racy on your router.
Router	*	Current time	2019-09-22 17:09:32		
Security		Enable SNTP			
System	-		_		
Device Information	on	Primary NTP server	time.sunrise.net	Ŧ	
Restart		Secondary NTP server	ntp.nasa.gov	*	
Reset		Local time zone	(GMT+01:00) Amsterdam, B	Ŧ	
One-click Check			Select a correct local time zone.		
Diagnosis					
Modify Password			Save		
PIN Code Manag	ement				

Figure 63 Time Settings



4.1 General FAQ

4.1.1 What devices can be connected to the LAN port? What is the maximum data transmission rate?

- The LAN port can connect to computers, printers, TV boxes, and other devices that can connect to the Internet.
- The maximum data transmission rate is 1Gbps.

4.1.2 What is the input voltage range of my Sunrise Internet Box 5G?

The input voltage range of your **Sunrise Internet Box 5G** is 90 VAC to 264 VAC.

4.1.3 What's the coverage area of my Sunrise Internet Box 5G's Wi-Fi network?

Your **Sunrise Internet Box 5G** meets the Wi-Fi coverage requirements for most home usage scenarios. The actual coverage effect depends on the placement of your **Sunrise Internet Box 5G**, the structure of your home, and the level of Wi-Fi interference.

If there are multiple Wi-Fi signals nearby, set your **Sunrise Internet Box 5G** to a channel with less interference.

4.1.4 How many connections does the Sunrise Internet Box 5G support?

- You can connect directly up to 2 devices to the **Sunrise Internet Box 5G** using the LAN port.
 - Note: more devices can be connected over switch connected to LAN port.
- You can connect up to 32 devices to Wi-Fi network, however Sunrise recommends not to connect more than 15 devices simultaneously

4.1.5 What is the daily power consumption of my Sunrise Internet Box 5G?

Under normal circumstances, **Sunrise Internet Box 5G's** daily power consumption should be between 0.2 kWh and 0.4 kWh.

4.1.6 Why does the Sunrise Internet Box 5G become hot after a while? Does that affect the usage?

Sunrise Internet Box 5G's surface temperature may rise after it has been working for a long time, but its temperature won't differ more than 30°C from the indoor temperature. This is normal and does not indicate an issue with Sunrise Internet Box 5G. It is recommended that you unplug Sunrise Internet Box 5G when it is not in use. You can then re-plug it in when you need to use it again.

4.1.7 What does the Hi/WPS button do?

You can use the Hi/WPS button to enable WPS function. The Hi/WPS button allows you to connect smart home devices that support WPS to the Wi-Fi network of the **Sunrise Internet Box 5G** with a single button press in order to build a distributed smart home network with automatic hotspot switching and wider signal coverage.

WPS: When the indicator is steady on, press the **Sunrise Internet Box 5G** Hi/WPS button for 5 seconds and within two minutes press WPS button on other Wi-Fi device (for example, your printer) to enable the standard WPS negotiation and connect the Wi-Fi device to the Wi-Fi network of the **Sunrise Internet Box 5G**.

Apple Devices are not supporting WPS

4.1.8 What does an external antenna port do?

The external antenna port of your **Sunrise Internet Box 5G** is used to connect the external antenna (optional) to improve signal reception.

Note



Generally, the **Sunrise Internet Box 5G**'s built-in antenna is enough to provide adequate signal strength and there is no need to connect an external antenna using this port.

You must use antennas that are compatible with your **Sunrise Internet Box 5G**. Contact your device supplier before purchasing external antennas.

4.1.9 What different setup and management methods are there?

When the **Sunrise Internet Box 5G** is connected to a device, use the device browser to log in to the web-based management page (http://192.168.8.1).

4.1.10 How do I check the product version?

- Connect your computer to the Sunrise Internet Box 5G's Wi-Fi network (or connect the computer to the Sunrise Internet Box 5G's LAN port using an Ethernet cable).
 Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your Sunrise Internet Box 5G's web-based management page
- 2. Go to Advanced > System > Device Information to check the product version

分Home	Wetwork Settings			နိ Devices	B Tools	🐼 Advanced
Wi-Fi	•	Device Information				
Updates Router		Device name	H112-370			
Security	-	Serial number IMEI	7JK7N196180 86720604048	000015		
System Device Informat	ion	IMSI My number	22802150474 Unknown	18483		
Restart Reset		Hardware version	WL1H112M V	er.A		
One-click Check	x	Web UI version	WEBUI 10.0.1	.1(W2SP6C154)		
Modify Passwo	rd	Configuration file version	H112-370-CU	SI 8.0.1.2(C154) 62:01		
PIN Code Manag Time Settings	gement .	WAN IP Address WAN IPv6 Address	100.71.64.253 Unknown	2		
System Settings	\$	CELL_ID RSRQ	20743940 -10.0dB			
		RSRP	-89dBm <=-113dBm			
		SINR	3dB	DDucch-0dBm DSre	0dBm	
		Uplink mod/demod of MCS	PPrach:0dBm mcsUpCarrier	-1:28	oubm	
		Downlink mod/demod of MCS	mcsDownCar mcsDownCar	rrier1Code0:4 rrier1Code1:3		
		PLMN	22802			

Figure 64 Device Information

----End

4.1.11 Are online updates supported?

Sunrise does not support nor recommend to perform online not manual update of **Sunrise Internet Box 5G**

4.1.12 How do I restore the Sunrise Internet Box 5G to its factory settings?

Method 1: Power on the **Sunrise Internet Box 5G** and use a sharp-pointed object (for example a needle) to press and hold the reset hole. Release when the Power indicator blinks. After the **Sunrise Internet Box 5G** has restarted, it is restored to its factory settings.

Method 2: Log in to the web-based management page and choose **Advanced** > **System** > **Reset** and click the **Reset** button.

👐 HUAWEI					Language 👻		3 <u>8</u>
企 Home		Network Settings	奈 Wi-Fi Settings	옹 Devices	- Tools	🐼 Advanced	
Wi-Fi Updates Router Security System Device Information Restart Reset Diagnosis Modify Password PIN Code Manageme Time Settings System Settings	ent		Reset Il configurations will be resto	red to factory settings. I	Please proceed with cautio	n.	

Figure 65 Reset Sunrise Internet Box 5G

4.1.13 How do I modify my login password?

- 1.Connect your computer to the **Sunrise Internet Box 5G**'s Wi-Fi network (or connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page
- 2. Choose **Advanced > System > Modify Password**. Enter the current password, the new password and confirm the new password and then click **Save**

火 HUAWEI				Language -	0	▶ 🖻 🔆
价 Home	Hetwork	work	s දී Devices	BB Tools	@-	Advanced
Wi-Fi Updates	•	Modify Password Changing the login passwo	ord frequently prevents u	nauthorized users from	n modifying confi	gurations.
Router Security	•	Current password New password				
System Device Information	•	Confirm password	Letters + numbers re	ecommended	Rules	
Restart Reset				Save		
Diagnosis Modify Password						
PIN Code Managemen	nt					
System Settings						

Figure 66 Modify password

----End

4.1.14 Clients Cannot Access the Internet Properly

Procedure

- Step 1 Check that clients are connected to the Sunrise Internet Box 5G properly
- Step 2 Check that the Sunrise Internet Box 5G is powered on properly
- Step 3 Check that the Sunrise Internet Box 5G is in a location covered by communication networks and that the signal strength is strong
- Step 4 Contact your service provider if the problem persists

4.1.15 Clients Cannot Access the Wi-Fi Properly

Procedure

- Step 1 Check whether there are potential interference sources or shielding objects near the Sunrise Internet Box 5G. If any, adjust the placement of the Sunrise Internet Box 5G
- Step 2 Check and record the settings of the following parameters on the clients and the Sunrise Internet Box 5G: Wi-Fi name (SSID), Security mode, and security key. The service set identifier (SSID) of the clients must be set to ANY or be same as that set on the Sunrise Internet Box 5G. The encryption mode and the security key on the clients must match those set on the Sunrise Internet Box 5G. Otherwise, change the settings on the clients
- Step 3 If the Media Access Control (MAC) address filtering in the wireless local area network (Wi-Fi) is enabled on the Sunrise Internet Box 5G, check that the MAC address of the client is not in the Block list

----End

4.1.16 Wi-Fi Key Is Forgotten

- Log in to the management page and obtain the current Wi-Fi key
- Restore the default settings. Check the relevant label on the Sunrise Internet Box 5G to obtain the default Wi-Fi key

4.1.17 Multi-Network IP Address Conflict Occurs

When multiple types of Internet connections are used simultaneously on the client, such as physical network adapter and Wi-Fi, inserting the **Sunrise Internet Box 5G** into the client may result in IP address conflict across multiple networks.

Solution: Disable other network devices or disconnect other Internet connections from the client, and then restart **Sunrise Internet Box 5G**.

4.1.18 What Can I Do If the Icons That Indicate No Signals and No Service Are Displayed?

Procedure

- Step 1 Check that the Sunrise Internet Box 5G is in an area with good reception
- Step 2 Check that you have subscribed to network services and that there is no outstanding balance
- Step 3 Contact your service provider if the problem persists

4.2 Wi-Fi settings

4.2.1 How do I check or change the Wi-Fi password?

Method 1: Check on the Sunrise Internet Box 5G's nameplate

Method 2: Check and modify on the **Sunrise Internet Box 5G**'s web-based management page

- 1. Connect your computer to the **Sunrise Internet Box 5G**'s (connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page
- Choose Wi-Fi Settings > Wi-Fi Basic Settings to check the current SSID and password. To modify the SSID and password, enter the new SSID and password and then click Save

∰ Home ∰ Ne	etwork Settings 🛛 🤶 Wi	-Fi Settings 유 De	evices 📅 Tools	🔯 Advanced
Wi-Fi Basic Settings Guest Wi-Fi	Wi-Fi Basic Se	ettings		
	5 GHz preferred	The 2.4 GHz and 5 G displayed as one. The preferred when their s this switch to use ther	Hz signals are combined and faster 5 GHz network is signal strength is equal. Turn of n separately	т
	Wi-Fi			
	Wi-Fi name (SSID	HUAWEI_H112_B08	35	
	Security mode	WPA2-PSK	Ŧ	
	Wi-Fi password	•••••	Ŕ	
		More	Save e Wi-Fi Settings	

Figure 67 Wi-Fi Password Settings

4.2.2 How do I hide or stop hiding the Wi-Fi SSID?

- 1. Connect your computer to the **Sunrise Internet Box 5G's** LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page
- 2. Choose Advanced > Wi-Fi > Wi-Fi Security Settings. Click / next to the SSID

介Home	Wetwork Setti		င်္ဂ Devices	Tools	O Advanced
Wi-Fi Wi-Fi Advance Wi-Fi Security	ed Settings Settings	WI-FI Security Settings You can do more security settings for Help	WI-FI to ensure data securiț	y on your wireless netw	vork.
WI-FI MAC FIIt WI-FI WPS	er		2.4 GHz Wi-Fi		
Updates		Wi-Fi name (SSID)	Security mode	Status	Options
Router		HUAWEI_H112_B085	WPA2-PSK		~
Security		HUAWEI_H112_B085_S1	WPA2-PSK		2
VoIP	*				
System			5 GHz Wi-Fi		
		Wi-Fi name (SSID)	Security mode	Status	Options
		HUAWEI_H112_B085	WPA2-PSK		2

Figure 68 Wi-Fi SSID

3. Check the Hide Wi-Fi and then click Save.

1 Home	Wetwork Setting:	s 🗢 🤶 Wi-Fi Sett		යී Devices	Tools	🐼 Advanced
WI-FI WI-FI Advanced WI-FI Security S	v Settings	Wi-Fi Security Setting You can do more security s Help	gs settings for W	i-Fi to ensure data se	ecurity on your wireles	is network.
WI-FI MAC Filte WI-FI WPS	r	← Back				
Updates		Wi-Fi name (SSID)	HUAWEI_	H112_B085		
Security	-	Security mode	WPA2-P	зк	*	
VoIP System	▲ ▲	Hide Wi-Fi	<	•	<i>G</i>	
			When ena name of th Note that V	bled, you must enter e network you would Vi-Fi WPS will be una	the correct Wi-Fi like to connect to. vailable.	
				Save		

Figure 69 Hide Wi-Fi SSID

----End

To stop hiding the SSID, uncheck the Hide Wi-Fi and then click Save.

4.2.3 How do I create a Wi-Fi blacklist or whitelist?

Wi-Fi devices to the list and then click Save

Based on your needs, you can set your **Sunrise Internet Box 5G**'s Wi-Fi to either Blacklist or Whitelist mode by enabling **Wi-Fi MAC Filter**. In Blacklist mode, devices in the list will not be able to access your wireless network. In Whitelist mode, only listed devices will be able to access your wireless network. Setting up a blacklist or whitelist will not only enhance the security of your wireless network, but also limit the access of unwanted users, even if they know your Wi-Fi name and password

- Connect your computer to the Sunrise Internet Box 5G's Wi-Fi network (or connect the computer to the Sunrise Internet Box 5G's LAN port using an Ethernet cable).
 Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your Sunrise Internet Box 5G's web-based management page
- 2. Go to Advanced > Wi-Fi MAC Filter. Enable Wi-Fi MAC Filter. Set the Sunrise Internet Box 5G to Blacklist (block access from devices in the list) or Whitelist (only allow access to devices in the list) mode according to your needs

3. Select **Block** or **Allow** in the **Filter mode** section. Click ⁺ to add your desired

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价 Home (Network Setting:	k	igs 🖧 Devices	Tools	Advanced
Wi-Fi Wi-Fi Advanced Setting Wi-Fi Security Settings	s	Wi-Fi MAC Filter Set the Wi-Fi MAC Filter ?Help	r to allow or block a devic	e from accessing your router t	hrough Wi-Fi.
WI-FI MAC Filter WI-FI WPS Updates		Wi-Fi MAC Filter	Allow	Block	
Router Security	•		Wi-Fi MAC	Address List	+
System	•	Serial Number	Device Name	MAC address	G Options
				Save	





To disable Blacklist or Whitelist mode, click the Wi-Fi MAC Filter switch.

4.2.4 How do I set parental controls on my Sunrise Internet Box 5G?

Your **Sunrise Internet Box 5G** supports parental controls that allow you to limit your child's Internet access.

- Connect your computer to the Wi-Fi network of your Sunrise Internet Box 5G, or to the LAN port on the Sunrise Internet Box 5G using an Ethernet cable. Open a browser, enter 192.168.8.1 in the address bar, and then enter the password to access your Sunrise Internet Box 5G's web-based management page
- Go to Tools > Parental Control and click +

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介 Home 🛛 🌐	Network Settings	়ি Wi-Fi Settings	운 Devices	Tools	🚯 Advanced	
SMS Statistics Parental Control	•	Parental Control Parental Control allows you Internet environment for you Note: When the start time is O Help Website titlering helps you ro online. Web Filter Device Name	to manage website acco ir family (especially mino later than the end time, estrict and filter which we Internet Access	ss and time limits for family me rs). Parental Control will be set to n ebsites your family members ca Time Control net Access Permitted	mbers, ensuring a safe nulti-day mode. In access when they are the comparison of the safe (Coperation	

Figure 71 Parental Control

• Select the time, week, and device name you want to add parental controls for, and click **Confirm**.

	Internet Access Time Control
Time	02 • : 00 • to 03 • : 00 •
Repeats	✔ Mon Tue Wed Thu Fri Sat
Enable on selected devices	 Honor_7X(B0:E1:7E:37:7C:FC) A171215943K(F8:94:C2:D4:F0:B2) W00342864-ZR(00:E0:4C:22:15:30)[This device] BA04840868-A(EC:17:2F:FD:43:9F)
	Cancel Confirm

Figure 72 Internet Access Time Control

4.2.5 How can I use WPS PBC to connect a device to my Sunrise Internet Box 5G's Wi-Fi network?

With WPS PBC, you can enjoy fast, secure Wi-Fi connections without the need to manually enter a Wi-Fi password. The information in this section is based on establishing WPS connections between smart phones (except apple devices) and **Sunrise Internet Box 5G's**.



The WPS feature on your **Sunrise Internet Box 5G** can only be used if your Wi-Fi device has a WPS button. This WPS button can be a hardware button which is part of your device's hardware. It can also be a virtual button included in your device software (for example, it could be a virtual button in your phone's WPS app). Apple devices do not currently support WPS. For instructions on how to set up a WPS connection for devices other than HUAWEI phones, consult the accompanying user guide for your device.

Method 1: Using the Hi/WPS button

- 1. On your phone, go to **Settings** > **Wi-Fi** > **Advanced Settings** > **WPS Connection** (exact steps may vary with different phones).
- 2. Within 2 minutes, press the HI button on your **Sunrise Internet Box 5G** for 2 seconds and then release. Afterwards, the Wi-Fi indicator should start to quickly flash.



Figure 73 Hi/WPS button

When the phone is connected to the **Sunrise Internet Box 5G**'s Wi-Fi, the **Sunrise Internet Box 5G**'s Wi-Fi indicator will turn from flashing to steadily lit. You do not need to select a Wi-Fi network or enter a password.

Method 2: Using the web-based management page

- 1. On your phone, go to **Settings > WLAN > Advanced Settings > WPS Connection** (exact steps may vary with different phones).
- 2. Connect your computer to the **Sunrise Internet Box 5G**'s Wi-Fi network (or connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page.
- 3. Go to Advanced > Wi-Fi > Wi-Fi WPS. Check the PBC Connect button. The Wi-Fi indicator should start to flash white quickly (exact light colour may vary with different Sunrise Internet Box 5G's). When the phone is connected to the Sunrise Internet Box 5G's Wi-Fi, the Sunrise Internet Box 5G's Wi-Fi indicator will turn from flashing to steadily lit.

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යි Home 🛛 🕀	Network Settings	ခု Wi-Fi Settings 🖧 Devi	ices 🚦 Tools	Advanced
WI-FI WI-FI Advanced Settings WI-FI Security Settings	•	WI-FI WPS You can quickly connect to WI-FI using WI @Help	I-FI protected setup (WPS).	
WI-FI MAC Filter		wps		
Router		Method 1 Press the WPS button on the device, and	click the PBC Connect button within	2 minutes to connect to WI-FI.
Security	-			
System	-		PBC Connect	

Figure 74 Wi-Fi WPS connection trough PBS

----End

4.2.6 How can I use WPS PIN to connect a device to my Sunrise Internet Box 5G's Wi-Fi network?

You can connect a device to your **Sunrise Internet Box 5G**'s Wi-Fi either using STA PIN or AP PIN.

Method 1: Using STA PIN

On your **Sunrise Internet Box 5G**'s web-based management page, enter your device PIN code to securely connect it to the **Sunrise Internet Box 5G**'s Wi-Fi network:

- 1. On your phone, go to Settings > WLAN > Advanced Settings > WPS PIN Connection (exact steps may vary with different phones).
- 2. On the Sunrise Internet Box 5G's web UI, go to Advanced > Wi-Fi > Wi-Fi WPS.
- 3. Enter the device PIN in the text box, and click **Connect**.

For detailed information see user manual section 3.9.6

Method 2: Using AP PIN

Open the app on your device and enter your **Sunrise Internet Box 5G**'s PIN code to securely connect the device to the **Sunrise Internet Box 5G**'s Wi-Fi network. This method is generally supported on PCs or laptops with a wireless network adapter, but not supported on phones.

- 1. On the Sunrise Internet Box 5G's web UI, go to Advanced > Wi-Fi > Wi-Fi WPS.
- 2. Enable / generate the **PIN**
- 3. Open the network settings on your PC, and enable **Current PIN** (exact operation may vary with different PCs).
- 4. Enter the PIN to your device to start a connection.

For detailed information see user manual section 3.9.6

----End

4.2.7 How do I view the connected device information?

- 1. Connect your computer to the **Sunrise Internet Box 5G**'s Wi-Fi network (or connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page.
- 2. Go to **Devices**. From **Online Devices** list, you can view the connected device information such as IP address, name, and MAC address. From the **Offline Devices** list, you can also view disconnected devices that were once connected.

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分 Home	۲	Network Settings	☆ Wi-Fi Settings	දී Devices		Tools	@ A	dvanced
Online De	evices							Internet Access
	P5050TWP 0 day 0 hour 10 mi	inute						My device
?	iPhone 0 day 0 hour 2 min	iute						
?	testabc 0 day 0 hour 6 min	ute						
Offline D	evices							
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4.2.8 How do I check for Wi-Fi squatters?

If you experience a sudden slowdown in your Internet connection during normal use, you should check for Wi-Fi squatters.

- Connect your computer to Sunrise Internet Box 5G, or to the LAN port on the Sunrise Internet Box 5G using an Ethernet cable. Open a browser, enter 192.168.8.1 in the address bar, and then enter the password to access your Sunrise Internet Box 5G's web-based management page.
- Select Device. In the Online devices list, you can view information such as the IP address, host name, and MAC address of connected devices to check whether there are any Wi-Fi squatters. For example, if you know that there should only be one phone connected to your Sunrise Internet Box 5G, but there are two devices in the list, it indicates that someone is using your Sunrise Internet Box 5G's Wi-Fi network without your permission.

----End

4.3 Internet Configuration

4.3.1 How do I create a new profile list?

By creating a new profile, **Sunrise Internet Box 5G** can connect wirelessly to the Internet through Dial-up.

- 1. Connect your computer to the **Sunrise Internet Box 5G**'s Wi-Fi network (or connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page.
- 2. Go to Network Settings > Mobile Network > Internet Connection and click "+".

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슈 Home	۲	Network Settings	奈 Wi-Fi Settings	욵 Devices	Tools	{⊙} Advanced
Mobile Network Internet Connection Mobile Network Sean Ethernet	 	•	Internet Connection The Access Point Name (APP gateway between your carrier has these settings in the syst APN can't connect to the Inte Mobile data Data roaming Auto(default)	 v) is the name for the r's cellular network an em files, and can fill in met automatically, yo APN 	settings your device reads to d the public Internet. Most of the APN information automa u can change the APN manua u can change the APN manua	set up a connection to the the time, your device already titically when it connects. If the ally.

Figure 76 Internet Connection (APN)

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ि Home	٢	Network 🏾 🛜 Wi- Settings				
Mobile Network Internet Connection Mobile Network Sea	r	Internet Co The Access F	onnection oint Name (AF Profile I	PN) is the name for the Management	settings your device read:	s to set up a connection to the he, your device already when it connects. If the
Ethernet		Profile name				
		Set as Default Profile				
		User name				
		Password				+
		APN				
		Cance	I	Sa	ve	

3. Enter the network configuration information and click **Save**.

Figure 77 Internet Connection Profile Management

4.3.2 How do I set a data usage limit?

1. Connect your computer to the **Sunrise Internet Box 5G**'s Wi-Fi network (or connect the computer to the **Sunrise Internet Box 5G**'s LAN port using an Ethernet cable). Open your Internet browser. Enter 192.168.8.1 in your browser address bar and log in to your **Sunrise Internet Box 5G**'s web-based management page.

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슈 Home	۲	Network Settings	奈 Wi-Fi Settings	운 Devices	Tools	🚯 Advanced
SMS Statistics Parental Control		•	Statistics Volume statistics provided he bills.	re are approximate. Fo	or accurate statistics and deta	ils of charges refer to your
				Mobile	Network	Ø
			Monthly data usage Duration 03:05:25 Remaining 98.78MB			100MB
			Total data usage Duration 03:05:25 Used 1.22MB			
				CI	ear History ast cleared 2018-3-22	

2. Choose **Tools > Statistics** and click O.

Figure 78 Data Usage Limit (Statistics)

3. Set the data usage limit and click **Save**.

					Language 👻	O ↑ ⊡ *
					Tools	
Home SMS Statistics Parental Control	Setting Start d Monthil Thresh	Settings Start date Monthly data Threshold	Mobile Network 1 a plan 100 MB 90 % Cancel Save Total data usage Duration 03.06:13 Used 1.22MB			charges refer to your
			(Clear I Last c 2018	History leared 3-3-22	

Figure 79 Mobile Network Usage Limit

----End