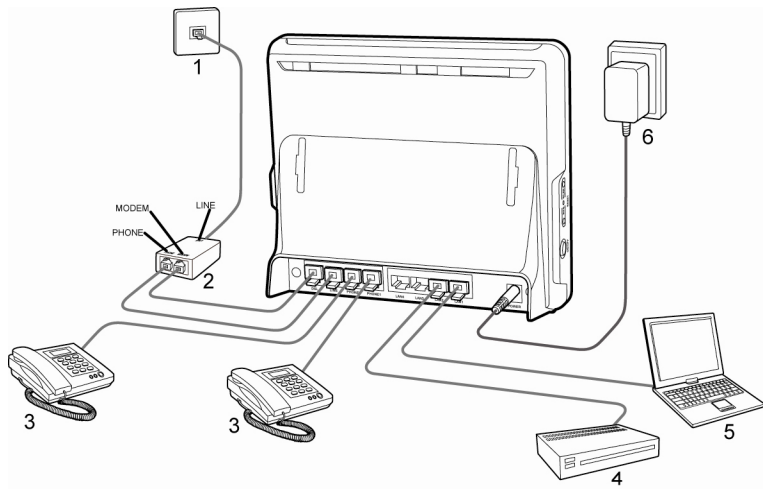


2 Installation Guide

Connecting the Cables

To connect the cables for installing the HG655d, do as follows:



- | | | | | | |
|---|------------------------|---|----------|---|---------------|
| 1 | Phone jack on the wall | 2 | Splitter | 3 | Telephone |
| 4 | Set-top box | 5 | PC | 6 | Power adapter |

Getting Started

To power on the HG655d, press the **ON/OFF** button on the side panel of the HG655d. After you power on the HG655d, the **DSL** indicator blinks (for less than three minutes), which indicates that the HG655d is being activated. Later, the **DSL** indicator turns solid on. The **POWER** indicator is also solid on, which indicates that the HG655d is working properly.

3 Accessing the Internet

The HG655d supports VDSL2 uplink and High-Speed Packet Access (HSPA) uplink through Huawei HSPA data card. You can access the Internet through the DSL link and HSPA link.



Please use the parameters provided by your internet service provider (ISP) for configuration. If the configuration is wrong, you will not be able to access the Internet.

Configuring the HSPA uplink

When the HG655d is working through the Huawei HSPA data card, you need to install the Huawei HSPA data card on the HG655d. To create a HSPA uplink connection, do as follows.

Step 1 Setting the WAN Parameters.

1. Launch the Internet Explorer and enter **http://192.168.1.1** in the address bar, and then press **Enter**.
2. Enter the user name and the password (**admin** and **admin** by default), and then click **Login**.
3. Click **Basic > WAN**.
4. Click **New**.
5. Select **UMTS1** from the **Connection device** drop-down combo box.
6. Select **Enable** for **WAN connection**.
7. Select **IP_Route(PPP)** from the **Connection type** drop-down combo box.
8. Enter the user name and password in the **User name** and **Password** text boxes.
9. Enter the APN and the Dial number that are provided by the Internet Service Provider (ISP) in the **APN** and **Dial number** text boxes.
10. Keep the default value for other parameters and click **Submit**.

Step 2 Insert the Huawei HSPA data card that the ISP specified to the USB interface on the HG655d.

Step 3 Verify the PIN Code of SIM Card.

1. Click **Advanced > PIN**.
2. Enter the original PIN number in the **PIN** text box.
3. Click **Submit**.

Configuring the DSL uplink

By configuring the DSL uplink, you can choose any of the following methods to surf the Internet:

- Using the Embedded PPP Dial-Up Software on the HG655d
- Using the PPP Dial-Up Software on Your Computer

Using the Embedded PPP Dial-Up Software on the HG655d

If you select this method for accessing the network, the HG655d starts to set up a dial-up connection automatically after the startup. You can access the network after you power on your computer.

To configure the HG655d and your computer for the network access, do as follows:

Step 1 Log in to the web page.

Step 2 Configure the PTM PVC and ATM PVC.

1. In the navigation tree, choose **Basic > ATM**.
2. Click **New**.
3. Enter VPI and VCI in the **VPI/VCI** text box provided by the Internet Service Provider.
4. Select **EoA** from the **DSL link type** option button, and keep the default settings of other parameters.
5. Click **Submit**.



Just keep the default settings for PTM settings.

Step 3 Enable the embedded dial-up function.

1. In the navigation tree on the left of the web page, choose **Basic > WAN**.
2. Click **New**.
3. Select a PVC from the **Layer2 interface** drop-down combo box.
 - The HG655d supports ADSL/VDSL compliance uplink.
 - When choose the ADSL uplink mode, the name of PVC should be composed by the value of VPI and VCI. When choose the VDSL uplink mode, the name of PVC should begin with ptm.
4. Select **Enable** check box for **WAN connection**.
5. Select **VOICE_TR069_INTERNET** from the **Service list** drop-down combo box.
6. Select **Route** from the **Connection mode** drop-down combo box.
7. Select **PPPoE** option button for **Connection type**.
8. Select **Enable** check box for **NAT**.



9. Enter the user name and password that are provided by the ISP in the **User name** and **Password** text boxes, and keep the default settings of other parameters.
10. Click **Submit**.

After you complete the preceding settings, you can surf the Internet.

You need to perform the preceding operations on a computer once only. The next time when you power on your computer, you can surf the Internet without any configuration.

Using the PPP Dial-Up Software on Your Computer

If you select this method for accessing the network, you need to install and configure the dial-up software on your computer. In addition, you need to perform dial-up operations on your computer upon each startup.

To configure the HG655d and your computer for the network access, do as follows:

Step 1 Set the working mode of the HG655d to **Bridge**.

For details, refer to the procedure for enabling the embedded dial-up function described in Step 2 in section "Using the Embedded PPP Dial-Up Software on the HG655d." Note that **Bridge** is selected from the **Connection mode** drop-down combo box.

Step 2 Install and configure the PPP dial-up software on your computer.

The PPP dial-up software is pre-installed on certain computer operating systems. To create a dial-up connection, do as follows (taking the Windows XP operating system as an example):

1. Choose **Start > All Programs > Accessories > Communications > Network Connections**.
2. Click **Create a new connection** in **Network Tasks** to display the **New Connection Wizard** window, and then click **Next**.
3. Select **Connect to the Internet**, and then click **Next**.
4. Select **Set up my connection manually**, and then click **Next**.
5. Select **Connect using a broadband connection that requires a user name and password**, and then click **Next**.
6. Enter the name (as desired) of the dial-up connection in **ISP Name**, and then click **Next**.
7. Select **Anyone's use** or **My use only**, and then click **Next**.
8. Enter the user name and password provided by the network operator and used for the dial-up connection, and then click **Next**.
9. Select **Add a shortcut to this connection to my desktop**, and then click **Finish**.

An icon for the dial-up connection is displayed on the desktop of your computer.

You need to perform the preceding operations only once for creating a network connection. After the network connection is created, to access the network,

double-click the icon for the dial-up connection, and then click **Connect** in the displayed dialog box.

4 Configuring the Wireless Network Connection

If a wireless network adapter is installed on your computer, you can connect your computer to the HG655d through a wireless connection.



The hardware installation methods and driver installation methods of wireless network adapters provided by different companies vary from each other. For details, see the installation guide provided by the wireless network adapter provider.

Setting Up a Wireless Connection by WPS

The HG655d supports the Wi-Fi Protected Setup (WPS) function. If your network adapter also supports the WPS function, you can use the WPS function to set up a wireless connection between your PC and the HG655d quickly.

To set up a wireless connection by WPS, do as follows:

Step 1 Enable the wireless network function.

The WLAN function is enabled by default and the WLAN indicator is on.

Step 2 Press the WPS button to enable the HG655d to enter the WPS negotiation state. The WPS indicator blinks.



If the WPS indicator does not blink, it indicates that the WPS function cannot be enabled. Note that the WPS function can be used only when the wireless network function is enabled and the wireless network security mode of the WLAN is set to WPA-PSK or WPA2-PSK.

Step 3 Enable the WPS negotiation function of the wireless network adapter on your PC within two minutes, and then wait for a moment (typically 10s and at most 2mins).

The WPS indicator of the HG655d becomes on from the blinking state, indicating that the HG655d is connected to your PC through the WLAN.

Setting Up a Wireless Connection Manually

If your network adapter does not support the WPS function, you can set up a wireless connection between your PC and the HG655d manually.

To manually set up a wireless connection, use either of the following methods:

- Use the tool provided by your network adapter.

For details, see the user guide of your network adapter.

- Use the wireless configuration software provided by the operating system of PC.

If your PC runs on Windows XP, you can use the Wireless Zero Configuration that is provided by Windows XP to set up a wireless connection.

Takes Windows XP as an example, to set up a wireless connection, do as follows:

- Step 1 Enable the wireless network function, and set the wireless network name and access password of the HG655d.
1. Log in to the web page.
 2. In the navigation tree on the left of the web page, choose **Basic > WLAN**.
 3. Select the **Enable WLAN**.
 4. Enter a wireless network name in the **SSID** text box.
 5. Select **WPA-PSK/WPA2-PSK** from the **Security** drop-down combo box.
 6. Enter an access password in the **WPA pre-shared key** text box.
 7. Select **AES** from the **WPA encryption** drop-down combo box.
 8. Click **Submit** to save the settings.
- Step 2 Enable the wireless configuration service provided by Windows XP.
1. Right-click **My Computer**, and then choose **Manage** from the shortcut menu.
 2. In the **Computer Management** window, choose **Computer Management (Local) > Services and Applications > Services**.
 3. From the services listed in the right pane of the **Computer Management** window, right-click **Wireless Zero Configuration**, and then choose **Properties** from the shortcut menu.
 4. In the **Wireless Zero Configuration Properties (Local Computer)** dialog box, check whether **Service status** is **Started**. If not, click **Start**.
 5. Click **OK** to close the dialog box, and then close the **Computer Management** window.
- Step 3 Configure the wireless network connection on your computer.
1. Choose **Start > All Programs > Accessories > Communications > Network Connections**.

2. In the **Network Connections** window, right-click **Wireless Network Connection** to display a shortcut menu, and then select **View Available Wireless Networks** from the shortcut menu.
3. In the **Wireless Network Connection Properties** dialog box, select **Wireless Networks**.
4. Select **Use Windows to configure my wireless network settings**.
5. Click **View Wireless Networks**.
6. In the **Wireless Network Connection** dialog box, select the WLAN with the same name that is configured in Step 1, and then click **Connect** in the lower right corner of the window.
7. In the displayed dialog box, enter the access password that is preset in Step 1, and then click **Connect**.
8. Close the **Wireless Network Connection** dialog box.
9. In the **Wireless Network Connection Properties** dialog box, click **OK**.

After the password is verified, **Connected** appears on the icon of the wireless network in the wireless network list, which indicates that your computer is connected to the HG655d through wireless connection.

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