

Introduction to the HG8110

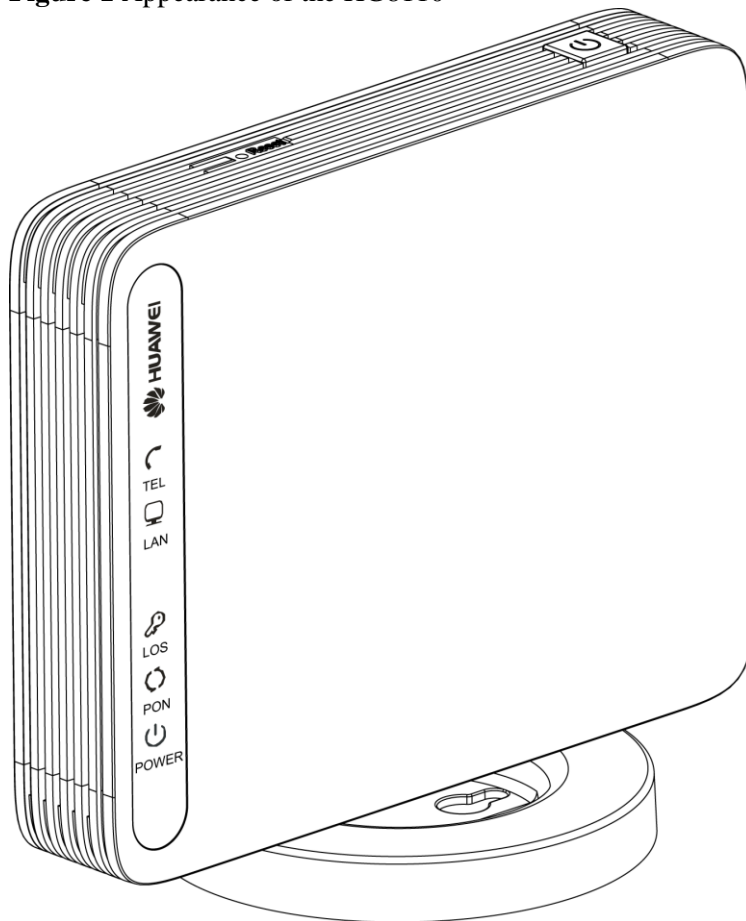
Introduction to the HG8110

This topic provides the appearance, ports and indicators of the HG8110.

Appearance

[Figure 1](#) shows the appearance of the HG8110.

Figure 1 Appearance of the HG8110



Ports

[Figure 2](#) and [Figure 3](#) show the ports on the rear panel and side panel of the HG8110 respectively.

Figure 2 Ports on the rear panel of the HG8110

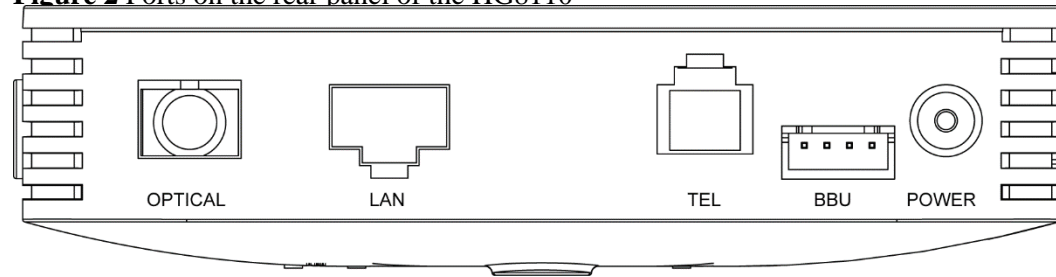


Table 1 Descriptions of the ports on the rear panel of the HG8110

Port and Button	Function
OPTICAL	Indicates the optical port. The optical port is equipped with a rubber plug and is connected to an optical fiber for upstream transmission. The type of the optical connector connected to the OPTICAL port is SC/APC.
LAN	Indicate auto-sensing 10/100/1000M Base-T Ethernet ports (RJ-45), used for connecting to PCs or IP set-top boxes (STBs).
TEL	Indicate VoIP telephone ports (RJ-11), used for connecting to the ports on telephone sets.
BBU	Indicates the external backup battery monitoring port, used for connecting to the backup battery for monitoring the battery.
POWER	Indicates the power port, used for connecting to the power adapter or backup battery.

Figure 3 Ports on the side panel of the HG8110

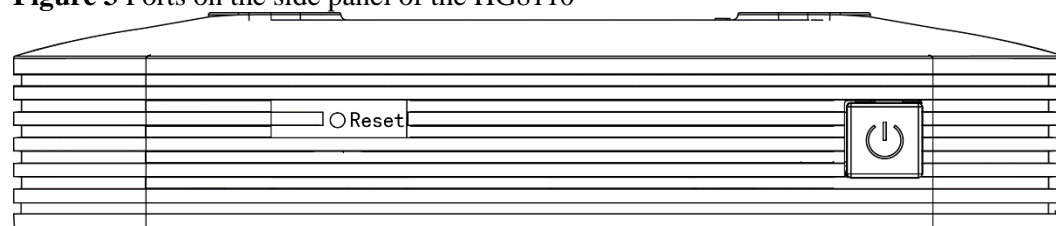


Table 2 Descriptions of the ports on the side panel of the HG8110


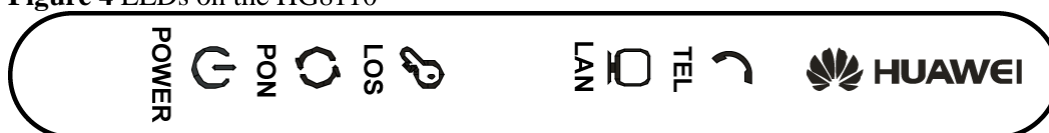
Port and Button	Function
	Indicates the power button. It is used to power on or power off the device.

Table 2 Descriptions of the ports on the side panel of the HG8110

Port and Button	Function
Reset	Indicates the reset button. Press the button for a short time to reset the device; press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device.

LEDs

[Figure 4](#) shows the LEDs on the HG8110.

Figure 4 LEDs on the HG8110**Table 3 Indications of the LEDs on the HG8110**

Silk Screen	Name	Status	Indication
POWER	Power supply LED	Green: always on	The device is powered on.
		Orange: always on	The device is powered by the backup battery.
		Off	The power supply is cut off.
PON	Authentication LED	See Table 4 .	
LOS	Connection LED	See Table 4 .	
LAN	Ethernet port LED	Always on	The Ethernet connection is in the normal state.
		Blinks	Data is being transmitted on the Ethernet port.
		Off	The Ethernet connection is not set up.
TEL	Voice telephone port LED	Always on	The connection to the voice server is set up.

Table 3 Indications of the LEDs on the HG8110

Silk Screen	Name	Status	Indication
		Blinks quickly (twice per second)	The connection to the voice server is set up and the telephone is in the off-hook or ringing state.
		Blinks slowly (once two seconds)	The ONT is registering with the voice server.
		Off	The connection to the voice server is not set up.

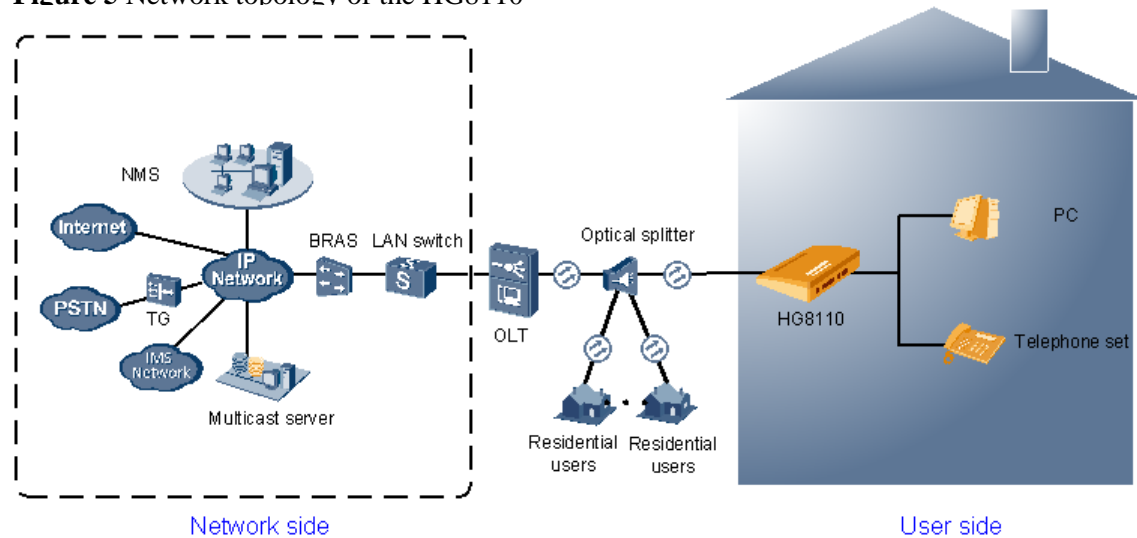
Table 4 Indications of PON and LOS LEDs

No.	LED Status		Indication
	PON	LOS	
1	Off	Off	The ONT is disabled by the OLT.
2	Blinks quickly (twice per second)	Off	The ONT is attempting to set up a connection to the OLT.
3	Always on	Off	The connection between the ONT and the OLT is set up.
4	Off	Blinks slowly (once two seconds)	The Rx optical power of the ONT is lower than the optical receiver sensitivity.
5	Blinks quickly (twice per second)	Blinks quickly (twice per second)	The OLT detects that the ONT is a rogue ONT.

Typical Network Applications

[Figure 5](#) shows the position of the HG8110 in a network.

Figure 5 Network topology of the HG8110



- In the upstream direction, the HG8110 is connected to the optical splitter and the network-side OLT through the passive optical network (PON) port, namely the OPTICAL port, to provide integrated access services.
- In the downstream direction, the HG8110 is connected to various terminals through the following LAN-side ports to implement the triple play service:
 - One 10/100/1000M Base-T Ethernet ports, which can be connected to terminals such as PCs, STBs, and video phoned to provide the high-speed data and video services.
 - One TEL ports, which can be connected to telephone sets or fax machines to provide superior and cost-effective voice over IP (VoIP), fax over IP (FoIP), and modem over IP (MoIP) services.