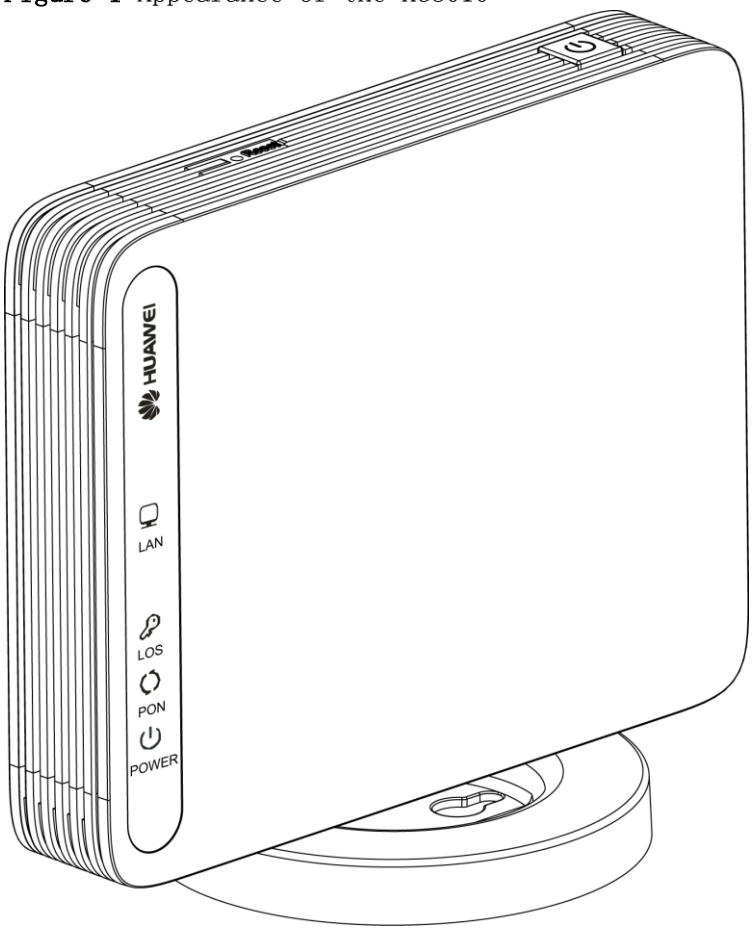
HG8010

This topic provides the appearance, ports and indicators of the HG8010.

Appearance

Figure 1 shows the appearance of the HG8010.

Figure 1 Appearance of the HG8010



Ports

Figure 2 and Figure 3 show the ports on the rear panel and side panel of the HG8010 respectively.

Figure 2 Ports on the rear panel of the HG8010

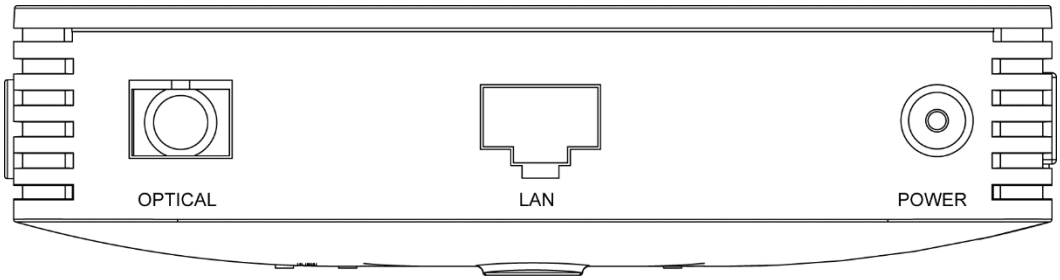


Table 1 Descriptions of the ports on the rear panel of the HG8010

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).
POWER	Indicates the power port, used for connecting to the power adapter or backup battery.

Figure 3 Ports on the side panel of the HG8010

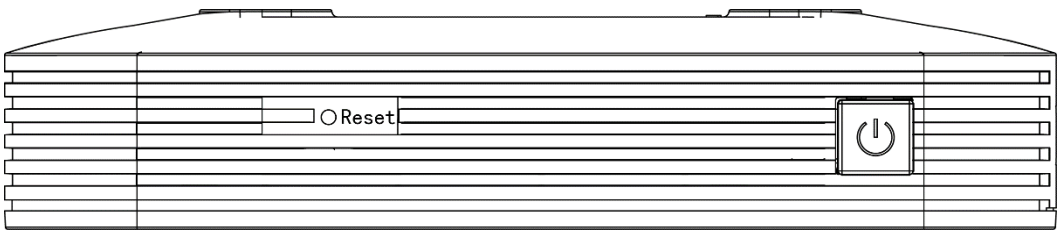


Table 2 Descriptions of the ports on the side panel of the HG8010	
Port and Button	**Function**
Reset	Indicates the reset button. Press the button for a short time to reset the device; press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device.
	Indicates the power button. It is used to power on or power off the device.

LEDs

Figure 4 shows the LEDs on the HG8010.

Figure 4 LEDs on the HG8010

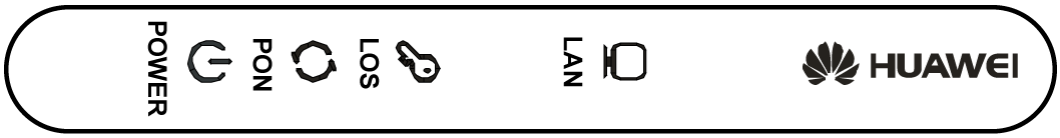


Table 3 Indications of the LEDs on the HG8010			
Silk Screen	**Name**	**Status**	**Indication**
POWER	Power supply LED	Green: always on	The device is powered on.
		Off	The power supply is cut off.
PON	Authentication LED	See **Table 4.**	
LOS	Connection LED	See **Table 4.**	
LAN	Ethernet port LED	Always on	The Ethernet connection is in the normal state.
		Blinks	Data is being transmitted on the Ethernet port.

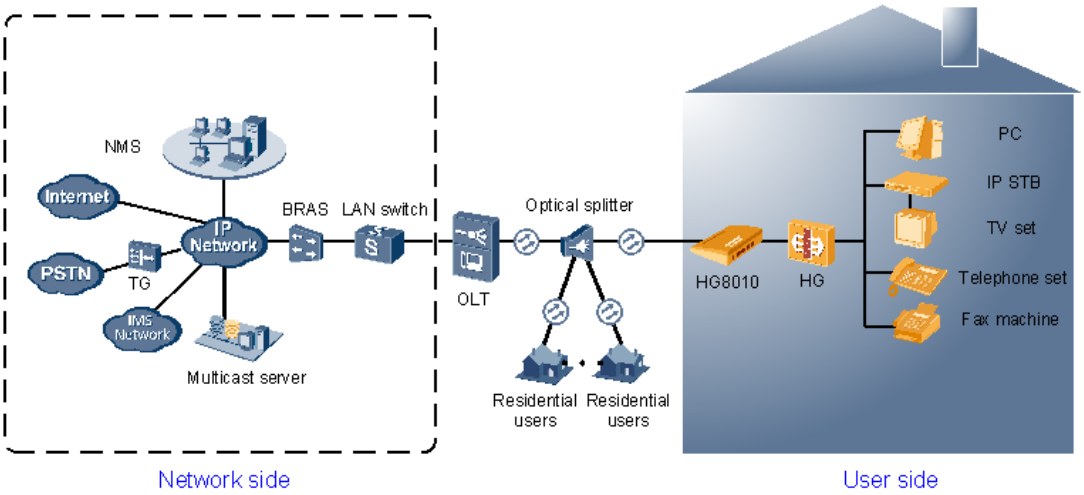
Table 3 Indications of the LEDs on the HG8010			
Silk Screen	**Name**	**Status**	**Indication**
		Off	The Ethernet connection is not set up.

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 HG8010 in a network.

Figure 5 Network topology of the HG8010



- In the upstream direction, the HG8010 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 HG8010 is provides a 10/100/1000M Base-T Ethernet port for connecting to a home gateway. The home gateway then can be connected to a PC, STB, or video phone to provide high-speed data and video services.