

Introduction to the HG8240R

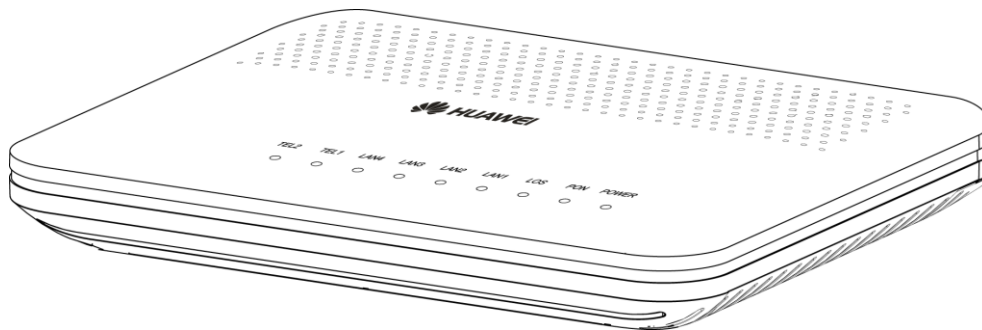
Introduction to the HG8240R

This topic provides the appearance, ports and indicators of the HG8240R.

Appearance

[Figure 1](#) shows the appearance of the HG8240R.

Figure 1 Appearance of the HG8240R



Ports

[Figure 2](#) and [Figure 3](#) show the ports on the rear panel and side panel of the HG8240R respectively.

Figure 2 Ports on the rear panel of the HG8240R

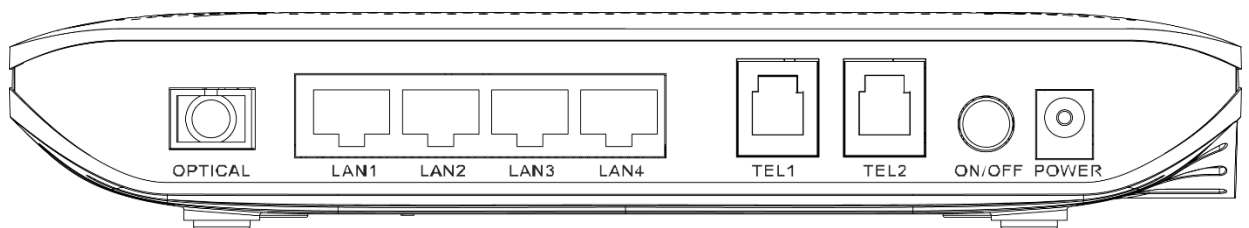


Table 1 Descriptions of the ports on the rear panel of the HG8240R

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.

Table 1 Descriptions of the ports on the rear panel of the HG8240R

Port and Button	Function
	The type of the optical connector connected to the OPTICAL port is SC/APC.
LAN1-LAN4	Indicates the autonegotiation Ethernet port (RJ-45), used to connect to a PC or an Ethernet port on an IP set top box (STB). Ethernet ports on the HG8240 are 10/100M or 10/100/1000M Base-T Ethernet ports, and those on the HG8240R are 10/100M Base-T Ethernet ports.
TEL1-TEL2	Indicate VoIP telephone ports (RJ-11), used to connect to the ports on telephone sets.
ON/OFF	Indicates the power-on/power-off button, used to power on or power off the device.
POWER	Indicates the power port, used to connect to the power adapter or backup battery.

Figure 3 Ports on the side panel of the HG8240R

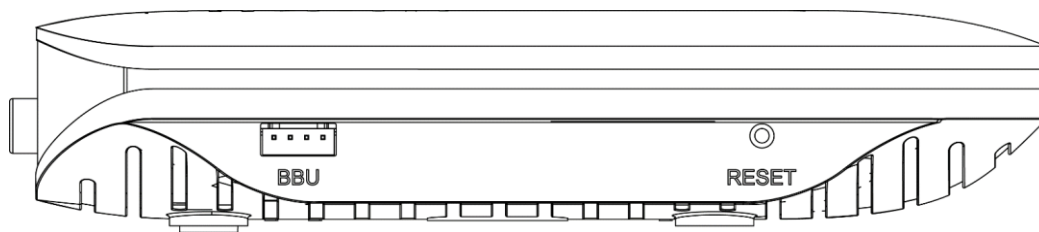


Table 2 Descriptions of the ports on the side panel of the HG8240R

Port and Button	Function
BBU	Indicates the external backup battery monitoring port, used for connecting to the backup battery for monitoring the battery.
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 HG8240R.

Figure 4 LEDs on the HG8240R

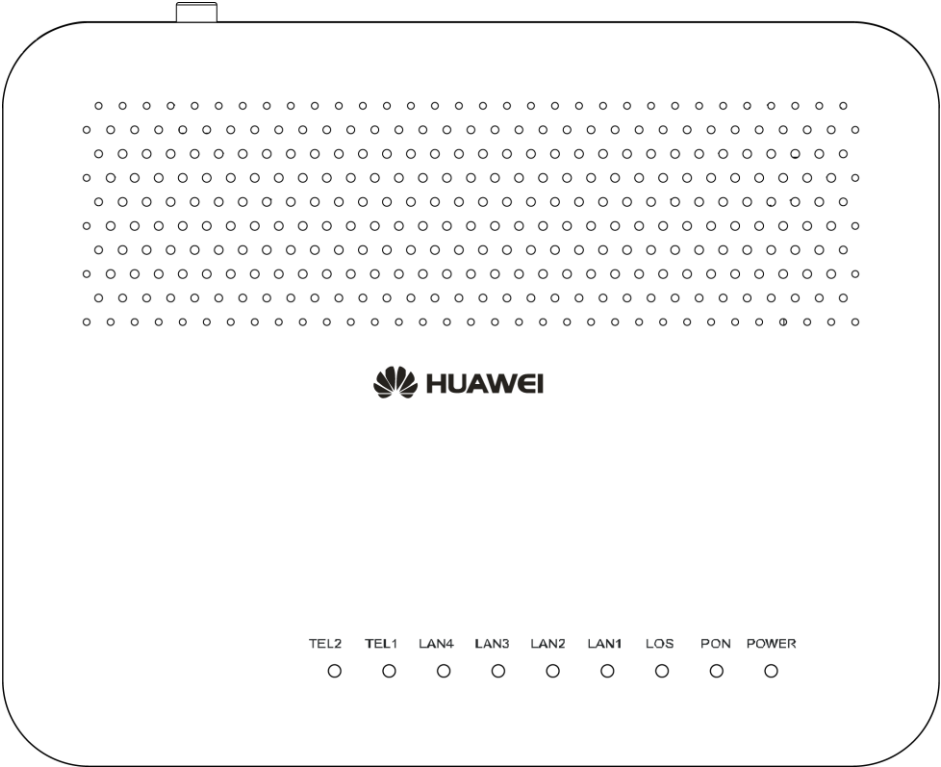


Table 3 Indications of the LEDs on the HG8240R			
Silk Screen	Name	Status	Indication
POWER	Power supply LED	Green: always on	The device is powered on.
		Orange: always on	The device is powered by the backup battery.
		Off	The power supply is cut off.
PON	Authentication LED	See Table 4 .	
LOS	Connection LED	See Table 4 .	
LAN1-LAN4	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 HG8240R

Silk Screen	Name	Status	Indication
		Off	The Ethernet connection is not set up.
TEL1-TEL2	Voice telephone port LED	Always on	The connection to the voice server is set up.
		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.

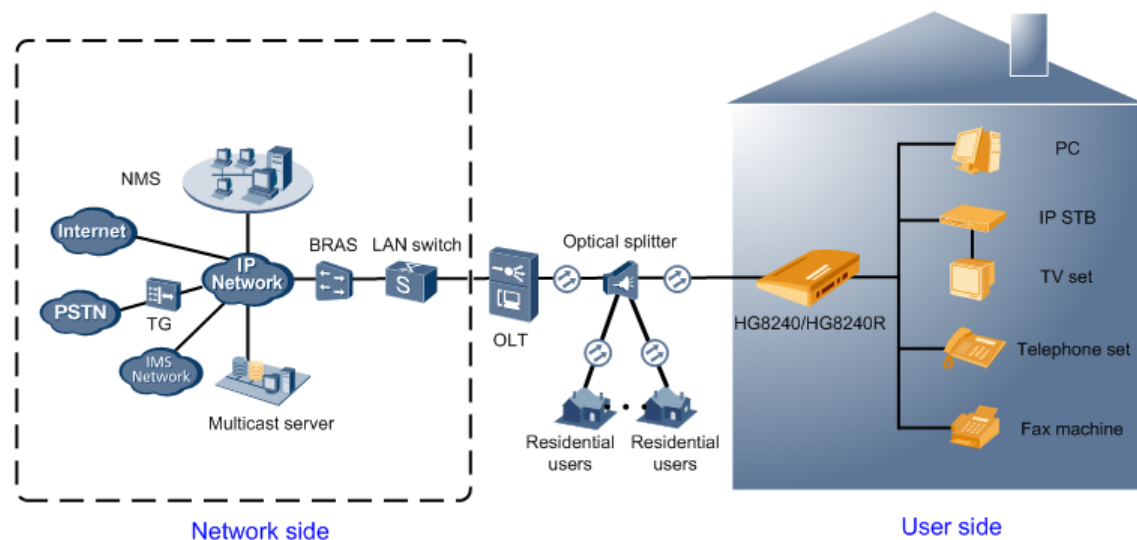
Table 4 Indications of PON and LOS LEDs

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 HG8240R in a network.

Figure 5 Network topology of the HG8240R



- In the upstream direction, the HG8240R 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, HG8240R is connected to various terminals through the following LAN-side ports to implement the triple play service:
 - the HG8240R provides 4 10/100M Base-T Ethernet ports, which can be connected to terminals such as PCs, STBs, and video phones to provide the high-speed data and video services.
 - Two 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.