

LG6121H



- 5G NR
- 4G LTE
- Wi-Fi 6

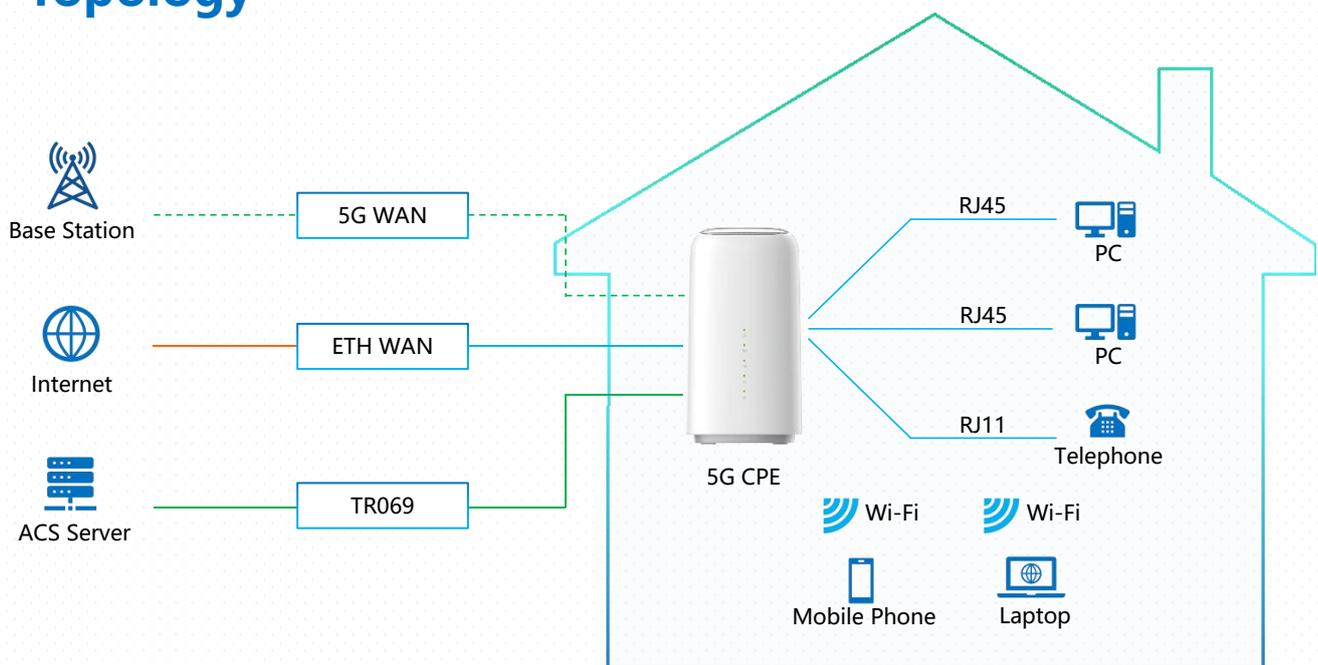
Physical Parameters

Dimensions (W*D*H)	93*96*180mm
Weight	About 680g
Color	White
Operating Temperature	0°C~45°C
Storage Temperature	-20°C~70°C
System Power Supply	DC 12V, 2A
Power Adapter input	AC 100~240V, 50~60Hz
System Power	< 24W
Buttons	Power/WPS/Reset
NNI Ports	5G NR or 4G LTE or GE WAN
UNI Ports	2*GE+1*POTS+1*USB Dual-band Wi-Fi 6, 5GHz band support 160MHz bandwidth
LED Indicators	Power/5G/4G/WLAN/WPS/Phone

Product Overview

- LG6121H is a high-performance Customer Premise Equipment for 5G/LTE network access. It is mainly used in home or small office scenarios where no fiber coverage, provides various services such as family network coverage, equipment monitoring, and wireless routing etc.
- LG6121H support 5G NR,4G FDD-LTE,4G TDD-LTE mobile network standard, flexible to adapt to different network deployments.
- LG6121H support 802.11a/b/g/n/ac and latest 802.11ax (Wi-Fi 6) protocol. Theoretical Wi-Fi speed up to 3000Mbps.

Topology



RF Interface

5G NR

- Support 5G NR (3GPP Release 15) Sub-6G
- 5G NR Bands:
n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78
- 5G DL 4*4 MIMO:
n1/n3/n7/n38/n40/n41/n77/n78
- Peak Throughput: DL 3.8Gbps/UL 2.5Gbps

4G LTE

- LTE Category: Cat 19
- Support TDD-LTE/FDD-LTE
- 4G FDD Bands: B1/B3/B5/B7/B8/B20/B28/B32
- 4G TDD Bands: B38/B40/B41/B42/B43
- 4G DL 4*4 MIMO: B1/B3/B7/38/B40/B41/B42/B43
- Peak Throughput: DL 1.6Gbps/UL 316Mbps

RF Extensions

- Support CA
- Support ENDC
- Support DSS
- Support two 5G antenna extension ports

SIM Slot

SIM Slot

- 4FF SIM Card (Nano-SIM) format
- Support Carrier SIM Lock
- Support SIM card hot swap

UNI Interface

Ethernet Port

- 1*GE for LAN/WAN port + 1*GE for LAN port
- WAN/LAN switch
- RJ45 interface
- 10M/100M/1000M auto-negotiation
- MDI/MDIX auto-sensing
- IEEE 802.3/802.3u

Phone Port

- 1*Phone port(RJ11)
- Support SIP Protocol
- Support CS voice communication
- Support VoLTE
- Support VoNR

USB

- 1*USB port: micro USB

Wi-Fi Interface

- IEEE 802.11 b/g/n/ax (2.4G)
- IEEE 802.11 a/n/ac/ax (5G), 160MHz support
- Dual-band Wi-Fi 6: 2.4G (2*2 MIMO) and 5G (2*2 MIMO)
- Encryption: WEP, AES, and TKIP + AES
- Security mode: Open, WEP, WPA2-PSK, WPA/WPA2-PSK, WPA3
- Support multi SSID and guest SSID
- Support changing SSID and password
- Press the WPS button to quickly connect
- Wi-Fi 2.4G Hz&5G Hz dual-band auto-selection
- 2 Built-in 2.4G Wi-Fi antennas; 2 Built-in 5G Wi-Fi antennas
- Support DBDC
- Support maximum of 64 connected stations

Product Function

Multi-Services

- Multi services: Internet, Voice
- Flexible UNI connection modes: Wire (GE/Phone) + Wireless (Wi-Fi)

Smart Interconnection

- Easy to access two network: 5G/4G LTE
- Support two 5G network mode: NSA/SA
- Easy to connect to ACS by TR069
- Wi-Fi 2.4G Hz&5G Hz dual-band auto-selection
- IPv4/IPv6 auto-negotiation
- Different LED clearly indicate network status

Software Update

- Web UI update
- TR069 update
- FOTA update

Product Function

Device Management

- Web UI
- TR069 management
- Mobile APP (Could be customized)

APN Setting

- Support default APN (customized)
- Set APN Username/Password/IP Mode

TR069

- Support HTTP/HTTPS format
- Upload/Download the ACS specified files, Download CPE configuration files
- Configure & Query parameters
- Remote upgrade

Diagnosis

- Ping diagnosis
- Traceroute diagnosis
- Export operation diagnosis logs

L3 Functions

- Support PPPoE/DHCP/Static IP config
- Support IPv4, IPv6, IPv4/IPv6 dual stack
- DNS RELAY and NAT
- ALG: H.323/SIP/RTSP/L2TP/PPTP/FTP
- Support PPTP/L2TP VPN/IPSec VPN

Security Services

- Firewall service: Firewall switch, DMZ, UPnP, Port forwarding, IP MAC Binding
- ACL filter: Mac/IP address filter, Port/URL filter , Wi-Fi Black/White list
- Wi-Fi Authentication

Product Certification

Certification

- Support CE Certification
- Support Wi-Fi Alliance Certification

Materials

- Meet RoHS requirements