

**4GE+1POTS+WiFi5**

**XPON ONT**

**Model: X1412**



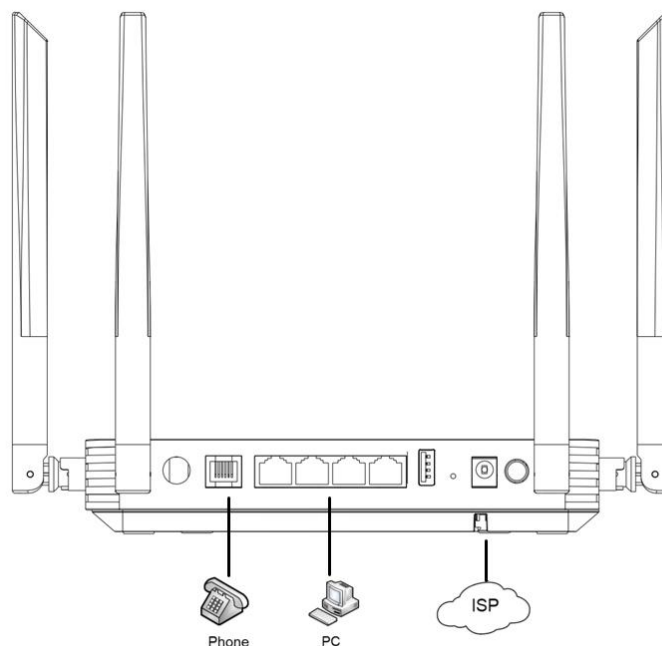
## Overview

The X1412 is a XPON(**GPON and EPON dual mode adaptive**) optical terminal access device that is highly integrated with dual-frequency Wi-Fi5. It is the end-product of optical fiber for operators. It supports ultra-bandwidth access through G/EPON upstream technology and provides users with basic WIFI functions, routing, and gigabit Ethernet functions. The upstream network ports of the X1412 are G/EPON ports. The downstream user ports include four GE electrical ports, one USB port, one VOIP port and WiFi5 WLAN ports.

## Interface function

- 1 \* G/EPON interface: SC/UPC/APC interface, ITU-T G.984,ITU-T IEEE802.3ah
- 4 \* Ethernet interface: 10/ 100/ 1000 Mbps, RJ - 45, IEEE802.3-2005 standard
- 1 \* VOIP interface: in accordance with G. 711 a/u, G. 729 a/b, G. 722 standard
- 1 \* USB interface: standard USB 3.0 interface
- Dual-band WiFi5(2.4G 300Mbps 5G 867Mbps)

## Cable connection



## Hardware Parameters

LED	POWER+PON/LOS+NET+LAN +POTS+WiFi+WPS+USB
Port	4*RJ45(GE)
	1*RJ11(POTS)
	1*Reset+1*Power +1*LED button+1*WiFi button+1*WPS
	1*SC/UPC (or SC/APC)
	1*POTS
	1*DC
	1*USB3.0
Size	190mm*135mm*33mm(L*W*H)
consumption	≤8W

## Interface Parameters

G/EPON Port	GPON:Class B + EPON:PX20+ GPON:Upstream1.25Gbps; Downstream:2.48Gbps EPON:Upstream1.25Gbps; Downstream:1.25Gbps
Ethernet Port	Ethernet port-based VLAN tags and tag removal VLAN transparent and mark MAC address learning 10/100/1000Mbps Autonegotiation
VoIP Port	Call waiting, Inconditional Call Forward, Call Forward if Busy,Call Forward if no reply and Three-party calls. G711A/G711U/G729/G722 SDP protocol (RFC 2327 and RFC 4566) T.30/T.38/G.711 faxmode

## Product Function

### GPON

- ITU-T G.984.1-4/IEEE802.3ah
- 15 TCONTs /256GEM ports
- 8 Egress queues per TCONT at least
- VLAN/ priority/VEIP gem mapping mode
- SN/LOID/SN+ Password authentication
- Performance monitoring: eth/Gem port
- Dying gasp

### Layer 3 Features

- PPPoE/Static IP/DHCP
- NAT/NAPT
- Port forwarding
- ALG, UPnP
- DDNS
- IPv6/IPv4 dual stack, and DS-Lite
- Static/Default routes
- Multiple services on one WAN port
- RIPv2 with passive mode

### Layer 2 Features

- MAC learning (SVL)/aging
- Support max frame length to1518 bytes
- VLAN tagging for untagged packets
- Support VLAN 1-4094
- VLAN transparent/translation

### QoS

- Support 8 Queues with Strict Priority
- Ethernet port rate limitation
- 802.1ppriority
- SP/WRR
- Service flow classification

### Multicast

- IGMP v2 (RFC 2236) and IGMP v3 (RFC 3376)
- IGMP snooping and IGMP Proxy
- MLD v1/v2

## WiFi5

WiFi protocol	2.4GHz supports 802.11b/g/n 5GHz supports 802.11a/n/ac
Transmit power	2.4G 100mW,5G/200mW,
Antenna gain	5dBi
Antenna	dual-antenna MIMO (2.4G&5G)
WLAN penetrate	one reinforced concrete wall or two ordinary brick walls (non- reinforced concrete),
WLAN access capability	64 client
channel	2.4GHz (channel 1-13) 5GHZ (channel 36-161 )
WPS	WLAN terminal devices with WPS Push Button function establish connection within 2 minutes
WLAN security function	WPA-PSK、WPA2-PSK、WPA3、 WPA-PSK/WPA2-PSK AES、AES+TKIP
Air Speed	2.4G 300Mbps 5G 867Mbps

## Product Function-Continued

### Management

- OMCI/Web UI/TR069
- Telnet/SSH management with CLI
- commands Dual-system software backup and rollback

### Environment

Operating Temperature	0°C~45°C
Storage Temperature	-20°C~70°C
Operating Humidity	5% ~ 95% (non-condensing)
Power Supply	12V/1.5A