



# PG412CL

4GE+CATV+AC1200 XPON ONU

**802.11ac 2.4GHz**

**300Mbps**

**802.11ac 5GHz**

**900Mbps**



# PG412CL

## WiFi 5 AC1200 DualBand XPON Router



IPv4 & IPv6  
Dual stack



E/GPON Dual  
Mode



Routing & Bridging  
Mode



Dual Band 4\*Antennas  
AC 1200Mbps

### Introduction

PG412CL is 4GE+CATV+AC1200 with USB optional XPON(GPON and GEAPON dual mode) HGU ONU. The device is fully comply with ITU-T G.984/G988 and IEEE802.3ah. The equipment integrates the reliability, maintainability and security design of carrier-grade level, and provides customers with the last kilometer of broadband access to residential and corporate customers. It can also be applied to a strictly temperature environment, and can work stable for longtime without service interruption.

PG412CL is interoperable with all brands of OLT and Easy to install, provisioning and maintenance. The device can identify the working mode of the OLT to automatically complete the switch between GPON and EPON, The device can be freely switched between bridge and routing modes, and supports PPPoE dial-up and IPv6 functions in routing mode to meet the needs of different scenarios.



## Product Parameters

Hardware Parameter	
Dimension	220mm×130mm×38mm (L×W×H)
Net weight	239g
Operating condition	<ul style="list-style-type: none"><li>• Operating temperature: -10 ~ +45°C</li><li>• Operating humidity: 10 ~ 90% (non-condensing)</li></ul>
Storing condition	<ul style="list-style-type: none"><li>• Storage temperature: -40 ~ +70°C</li><li>• Storage humidity: 5 ~ 95% (non-condensing)</li></ul>
Power adaptor	DC 12V/1A, external AC-DC power adaptor
Interfaces	XPON+4×GE+1×CATV+USB2.0(Optional)+WiFi AC1200
Buttons	Reset, WPS
Indicators	Power, PON, LOS, Internet, LAN1-4, CATV, USB(Optional), 2.4G, 5G, WPS

Interface Parameter	
PON interface	<ul style="list-style-type: none"><li>• 1XPON port(EPON PX20+ and GPON Class B+)</li><li>• PON standard: GEAPON IEEE802.3ah, GPON ITU-T G.984</li><li>• SC single mode, SC/UPC or SC/APC connector</li><li>• TX optical power: 0~4dBm(EPON) or 0.5~5dBm(GPON)</li><li>• RX sensitivity: EPON: -27dBm, GPON: -28dBm</li><li>• Overload optical power: -3dBm(EPON) or -8dBm(GPON)</li><li>• Transmission distance: 20KM</li><li>• Wavelength: TX 1310nm, RX1490nm</li></ul>
LAN interface	<ul style="list-style-type: none"><li>• 4×GE Auto-negotiation RJ45 ports</li></ul>
USB interface	<ul style="list-style-type: none"><li>• 1×USB 2.0(Optional)</li></ul>
WiFi interface	<ul style="list-style-type: none"><li>• Compliant with IEEE802.11b/g/n/ac</li><li>• WiFi: 2.4GHz 2×2, 5.8GHz 2×2 MIMO</li><li>• 4×5dBi external antennas</li><li>• Multiple SSID</li></ul>
CATV interface(Optional)	<ul style="list-style-type: none"><li>• RF Optical power : +2~-18dBm</li><li>• Optical return loss: ≥45 dB</li><li>• Optical receiving wavelength: 1550±10nm</li><li>• RF frequency range: 47~1000MHz</li><li>• RF output impedance: 75Ω</li><li>• RF output return loss: ≥14 dB</li><li>• RF output level: ≥ 76±2dBuV(@-15~0dBm)</li><li>• AGC range: 0~-15dBm</li><li>• C/N: ≥47dB@-7dBm</li><li>• CTB: ≥60dB@-7dBm</li><li>• CSO: ≥60dB@-7dBm</li><li>• MER: ≥35dB(-10dBm optical input)</li></ul>

## Software Features

PON	<ul style="list-style-type: none"><li>• XPON Dual Mode</li><li>• SN and LOID+Password multiple registration methods</li></ul>
Layer2	<ul style="list-style-type: none"><li>• Support VLAN transparent/tag/translate/trunk</li><li>• Support Layer 2 802.1Q VLAN, 802.1P QoS, ACL etc</li></ul>
Layer3	<ul style="list-style-type: none"><li>• IPv4, IPv6 and IPv4/IPv6 dual stack</li><li>• Support bridge, router &amp; bridge/router mixed mode</li><li>• DHCP v4/v6 Client/Server, PPPoE &amp; Static</li><li>• Support Static Routing</li><li>• Support hardware NAT</li></ul>
Multicast	<ul style="list-style-type: none"><li>• Support IGMP v2 and MLD proxy/ snooping</li><li>• Support MultiCast VLAN &amp; MultiCast Maximum Address</li></ul>
Security and Firewall	<ul style="list-style-type: none"><li>• DDoS, Filtering Based on ACL/MAC/URL</li><li>• Support DDNS, ALG, UPnP, Port forwarding, DMZ</li><li>• HTTP/SSH/Telnet Service Access Control</li><li>• Support Parent control</li><li>• Support PPTP , L2TP, Pass-through service</li></ul>
QoS	<ul style="list-style-type: none"><li>• Support 4 queues</li><li>• Support SP, WRR, 802.1P and DSCP</li></ul>
WiFi	<ul style="list-style-type: none"><li>• Integrated 802.11b/g/n/ac</li><li>• Authentication:WEP/WAP-PSK(TKIP)/WAP2-PSK(AES) /WPA3/ WPA3 Transition</li><li>• Modulation type:DSSS,CCK and OFDM</li><li>• Easymesh</li></ul>
Management	<ul style="list-style-type: none"><li>• Support Telnet, CLI, OMCI/OAM ,TR069 and Web management</li></ul>

## Package

Package	<ul style="list-style-type: none"><li>• 1 x ONU</li><li>• 1 x Quick Installation Guide</li><li>• 1 x Power Adaptor</li></ul>
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## Ordering information

Product Name	Product Description	Accessories
PG412CL	XPON+4GE+CATV+WiFi AC1200	AC-DC power adaptor: DC12V/1A