Ultimate-1210
2GE+1POTS+2WIFI XPON ONU

Product Overview

The Ultimate-1210 is a high-performance WIFI XPON VoIP Gateway ONT designed to deliver ultra-fast, reliable connectivity. It supports dual-band wireless standards including IEEE 802.11a/b/g/n over both 2.4GHz and 5GHz frequencies, offering combined wireless speeds of up to 1200 Mbps.

Engineered for high reliability and seamless performance, the Ultimate-1210 ensures robust Quality of Service (QoS), simplified network management, and flexible scalability. It fully complies with ITU-T and IEEE technical standards and is compatible with a wide range of third-party OLTs, making it an ideal solution for modern FTTH deployments.

Functional Feature

🌐 **Industry Standards Compliance**

- Adheres to IEEE 802.3ah and ITU-T G.984 standards, ensuring seamless integration and reliable performance in GPON networks.

⚒ **Intelligent Network Management**

- Supports automatic ONU discovery, link status monitoring, and remote firmware upgrades for simplified deployment and maintenance.
- Integrated EMS management via SNMP for centralized, efficient network supervision.
- Enables remote access control through intuitive Web GUI and Telnet interfaces.
- Power failure alarm functionality for rapid fault identification and resolution.

🔒 **Robust Security Features**

- Implements AES encryption/decryption to ensure secure data transmission.
- Built-in firewall with MAC address and URL filtering for enhanced network protection.
- Supports multiple ONU authentication methods including Serial Number (SN) and LOID + Password.

📡 **Triple-Play Service Delivery**

- Provides single-fiber access supporting Internet, VoIP, and Wi-Fi services.
- Equipped with Wi-Fi 5 technology, supporting 802.11a/b/g/n/ac standards for faster speeds, greater capacity, and improved wireless efficiency.
- Utilizes Dynamic Bandwidth Allocation (DBA) to optimize bandwidth distribution based on real-time demand.
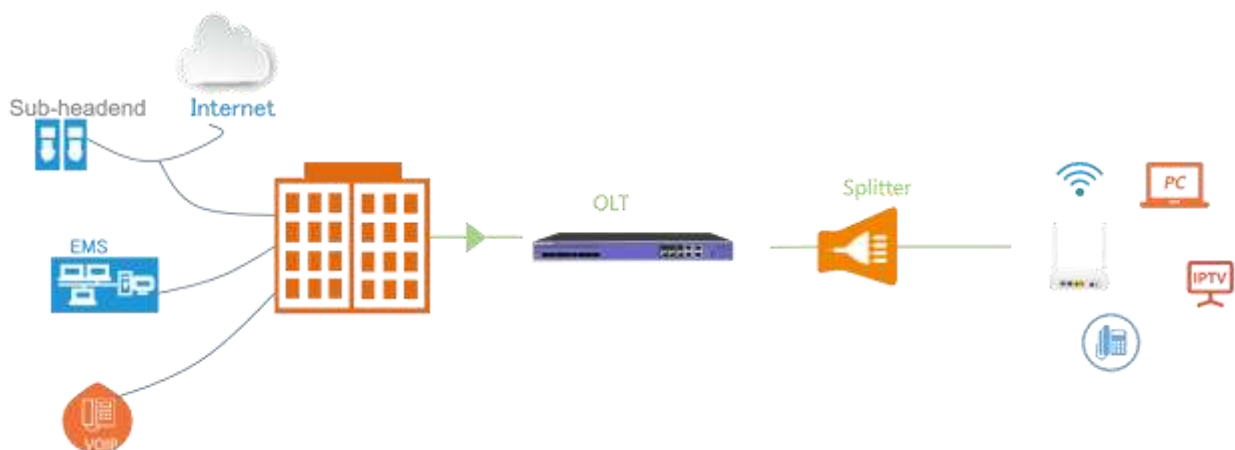
⚙ **Advanced Port & Traffic Control**

- Offers port-based VLAN configuration, rate limiting, and bandwidth control for precise traffic management.
- Supports MAC address learning with configurable limits to enhance security and performance.
- Comprehensive VLAN modes including transparent, tagged, translation, and trunk configurations.

📺 Multicast & Broadcast Efficiency

- Supports IGMP in transparent, snooping, and proxy modes for efficient multicast traffic handling.
- Equipped with broadcast storm control to maintain network stability and prevent congestion.

Product Interface and LED

①	PWR
②	PON
③	LOS
④	INT
⑤	LAN1-2
⑥	TEL
⑦	WIFI

Indicator		Description
PWR	Power status	On: The ONT is power on;
		Off: The ONT is Power off;
PON	ONT Register	On: Success to register to OLT;
		Blinking: In process of registering to OLT;
		Off: Failed to register to OLT or no normal optical signal input;
LOS	PON optical signals	On: Optical power lower than receiver sensitivity;
		Off: Optical in normal;
LAN	LAN port status	On: Ethernet connection is normal;
		Blinking: Data is being transmitted through the Ethernet port;
		Off: Ethernet connection is not set up;
INT	Internet status indicator	On: The routed WAN Internet access service is normal.
		Off: The routed WAN Internet access service is abnormal.

Product Specification

Mechanics	
Dimensions	214mm*139.5mm*32mm
Weight	About 239g
Hardware	
User Port (LAN)	RJ-45 connector
	2*10/100/1000Mbps adaptive Ethernet port
	Full/half duplex
	Auto MDI/MDI-X
Indicators	PWR / PON / LOS / GE / FE / INT / TEL / WIFI

PON Port	PON Mode	EPON：1000BASE-PX20+ symmetric
		GPON：FSAN G.984.2 standard, Class B+
	PON Rate	EPON：1.25Gbps downstream/upstream
		GPON：2.488Gbps/1.244Gbps downstream/upstream
	Wavelength	Transmit: 1310nm Receiver: 1490nm
	Receiving sensitivity	EPON：-27dBm GPON：-28dBm
	Saturated power	EPON：-3dBm GPON：-8dBm
	Transmitting power	EPON:0～4dBm GPON：0.5～5dBm

WIFI
IEEE802.11b/g/n(2.4G)
IEEE802.11a/n/ac(5G)
2.4G: bandwidth maximum rate 300Mbps 5G: bandwidth maximum rate 867Mbps
2.4G EIRP:17dBm / 5 G EIRP:17dBm

Environment	
Working temperature	0 to 40° C
Operating humidity	10% ~ 90% (Non-condensing)

User Port (POTS)
RJ-11 connector
1*accounts
SIP protocol
TDMF
G711U/G711A/G729/G722 encoding and decoding

Power	
External 12VDC/1A power supply adapter	
Power consumption	<9.7W