

UNIWAY UW-311VPW XPON ONU Overview

By introducing latest fiber XPON access technology, The Uniway Manufactures UW-311VPW [WiFi XPON ONU](#) brings carrier class high-end networking solution for advanced triple play services. It compliant with ITU-T G.984 standard, WiFi 802.11n dual-band wireless connection speeds of up to 300 Mbps on 2.4 GHz , Layer 2/3, and high quality VoIP as well, UW-311VPW XPON ONU support the comprehensive triple-play services, including voice, video (IPTV or VoD), and high-speed internet access service.

Figure 1:UNIWAY UW-311VPW XPON ONU



Product Specification

GPON Interface	
Rate	Upstream: 1.244Gbps Downstream: 1.244Gbps
Interface standard	ITU-T G.984.2/ITU-T G.984.3/ITU-TG.988 Class B+
Launch power	Min: 0dBm Max: +5dBm
Sensitivity	-27dBm
Input Power Overload	-8dBm
Service Interface	
XPON Interface	1 XPON Port
Data Interface	1 GE + 1 FE
POTS Interface	1 FXS Port
WIFI Interface	IEEE 802.11 ac/n/g/b/a wireless LAN
Antenna Type	2 external antennas
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)
Power Supply and Consumption	



Power Adaptor	Input: 100 to 240 V AC, 50/60 Hz; Output: 12 V, 1A
Consumption	≤8W
Physical specifications	
Dimensions	180mm×120mm×31mm (L×W×H)
Weight	0.24KG

Key Feature Support on RL821GWV

Features	RL821GWV
XPON Features	Compliant with ITU-T G.984 GPON standard
	FEC (Forward Error Correction) in both upstream and downstream
	QoS scheduling based on SP or WRR between GEM port and T-CONT
	Downstream multicast GEM port and broadcast GEM port
Ethernet Feature	Support Auto-speed and MDI/MDIX auto detection
	Internal L2 switch
	Advanced data processing function, Such as VLAN label processing, flow classification
Gateway Feature	WAN support Router and Bridge mode
	Router mode supports PPPoE/DHCP/ static IP
	WAN support Internet、 VoIP、 IPTV、 TR069
	LAN supports DHCP and static IP



	Support NAT and NAPT
VoIP Feature	Support SIP (RFC3261) or MEGACO v2 (H.248)
	Support Voice coding: ITU-T G.711/G.723/G.726/G.729, auto-negotiate with call agent
	Support Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length
WIFI Feature	300 Mbps on 2.4 GHz
	IEEE 802.11 n/g/b/a wireless LAN
	2.4 GHz band: 2400 – 2483.5 MHz
	WEP、WPA-PSK、WPA2-PSK and other encryption
OAM Feature	Standard OMCI (the embedded operations channel)compliant with ITU-T G.988
	Compliant with TR-069 standard
	Compliant with TR-098、 TR-140 terminal integrated management interface
	Alarm reporting, performance monitoring

FTTH Typical Networking :-

