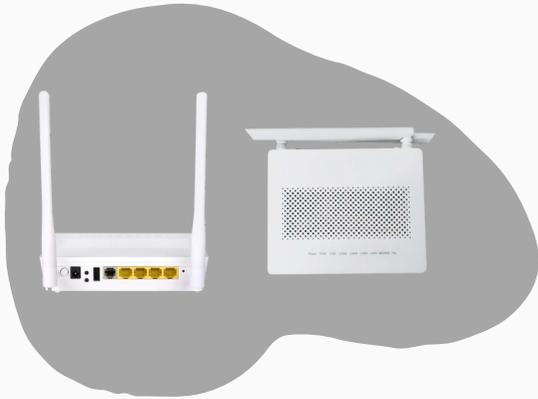


WinkyLink

LW531R11



CONNECT YOUR HOME WITH FIBER POWER

The WinkyLink WL531R11 is a high-performance XPON ONU designed for fiber-to-the-home (FTTH) applications. Compact and efficient, it integrates Gigabit and Fast Ethernet ports, VoIP, and 2.4GHz Wi-Fi to deliver reliable internet, voice, and wireless connectivity in one device. With support for both GPON and EPON networks, advanced routing, and low power consumption, WL531R11 is the ideal choice for seamless broadband access in homes and small businesses



STABLE WI-FI 2.4GHZ



XPON Dual Mode



Energy Efficient



All-in-One Access

Outputs:

Gigabit Ethernet port, Fast Ethernet ports(3x), VoIP port,
USB port, 2.4GHz Wi-Fi

Inputs:

SC/APC fiber input, 12V DC power input



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Smart Choice for Next-Gen Networks

The WL531R11 is designed with a compact and efficient structure to meet the demands of modern FTTH networks. It integrates multiple interfaces including Gigabit and Fast Ethernet ports, a VoIP port, and a USB interface, while also offering stable 2.4GHz Wi-Fi. With low power consumption and durable design, the hardware ensures reliable long-term operation for home and small business users.

Product Specifications

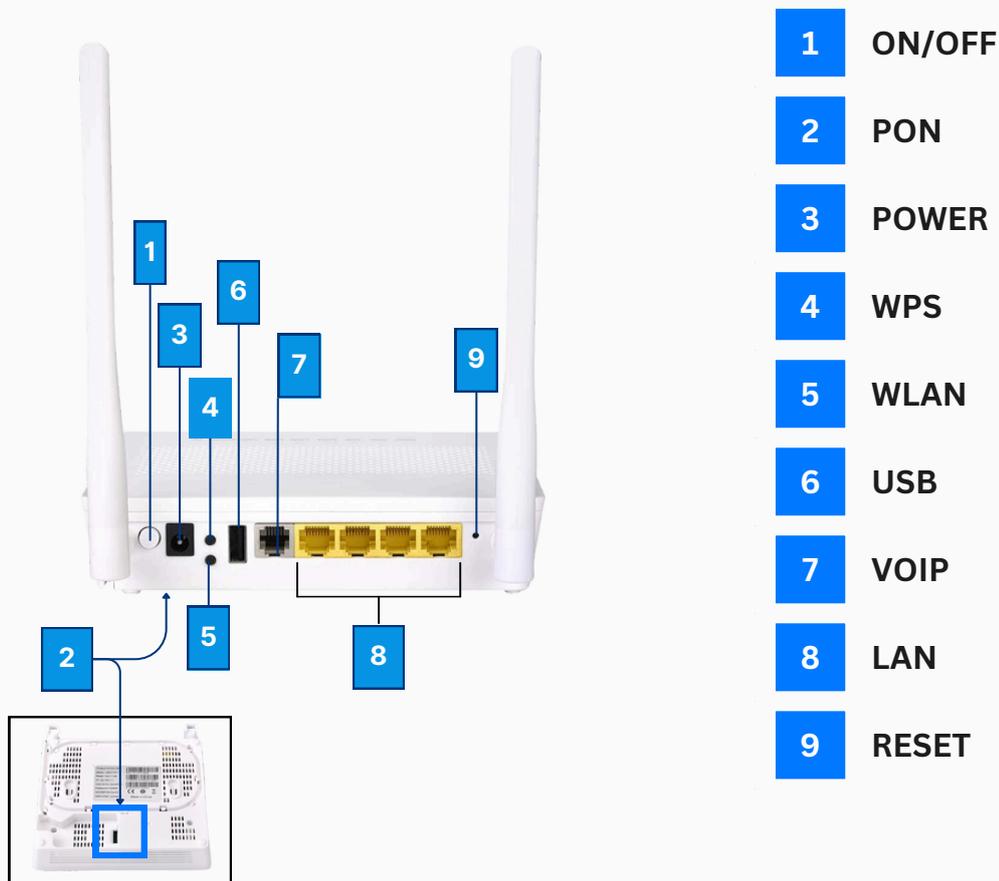
Size Optical signal access User	192×148×35 (mm)
Interface Indicator light	GPON/EPON
Buttons	Power switch Reset WLAN WPS
Interfaces (Ports)	1×Gigabit Ethernet 1×VoIP 1×USB 3×Fast Ethernet 2.4G WLAN
LED Indicators	POWER / PON / LOS LAN1 / LAN2 / LAN3 / LAN4 Wifi 2.4G WPS
Weight	250g
Power consumption	100–240V AC 50–60Hz
Power supply	12V DC 1.5A
Working temperature	-10°C ~ +45°C
Storage humidity	5% ~ 95% (Non-condensing)

Hardware Specifications

PON Interface	
Mode	Supports EPON/GPON dual mode with automatic switching
Standard Compliance	GPON: IEEE 802.3ah & ITU-T G.984.x
GPON Resources	8×T-CONT 32×GEM Ports
Module Type	SC/APC (up 1310nm, down 1490nm, CATV optional)
Working Wavelength	1550nm
TX Optical Power	0.5 ~ -4 dBm
RX Optical Sensitivity	-28 dBm
Transmission Distance	0 ~ 20 km
Transmission Rate	GPON: Up 1.244Gbps / Down 2.488Gbps EPON: Up 1.244Gbps / Down 1.244Gbps
Ethernet	
Interface Type	4×RJ45
Interface Parameters	1×10/100/1000Mbps + 3×10/100Mbps
Wireless	
Working Mode	IEEE 802.11 b/g/n (2.4GHz)
Antenna Pattern	2T2R External antenna
Antenna Gain	5 dBi
Wireless Bandwidth	Supports 20MHz/40MHz
Wireless Rate	Up to 300 Mbps
SSID	Supports up to 4 SSID broadcasts

Hardware Specifications

Advanced Features	
Home Gateway Functions	Layer 3 NAT, multiple WAN, Route/Bridge mode
Switching Functions	Layer 2 switching, VLAN (802.1Q), QoS (802.1P), Bandwidth Control, Spanning Tree
Network Protocols	PPPoE, Static IP, DHCP
Security	Firewall settings (URL/MAC/IP filtering), ALG, DMZ, UPNP
Multicast	IGMP v2 proxy/snooping, MLD proxy/snooping
QoS	PQ, WRR, CAR queue scheduling
Wireless Features	Multiple SSID support, bi-directional FEC
Compatibility	95% third-party OLTs (Huawei, ZTE, Fiberhome, BT-PON, etc.)
Chipset	Realtek



Software Features

The WL531R11 offers powerful software capabilities including remote management via OMCI, OAM, and TR-069, advanced firewall and QoS settings, full IPv4/IPv6 support, and flexible multicast and SSID management to ensure secure, efficient, and customizable network operation.

Remote Management	
OMCI (GPON)	Supports OMCI protocol for GPON configuration and management
OAM (EPON)	Supports OAM protocol for EPON configuration and monitoring
TR-069	Supports remote configuration and maintenance via TR-069
Network Protocols	
IP Support	IPv4, IPv6, and dual-stack IPv4/IPv6
Addressing	PPPoE, Static IP, DHCP
Security	
Firewall	URL/MAC/IP filtering, advanced rule settings
Other Security	ALG, DMZ, UPNP
Multicast	
IGMP	IGMP v2 proxy and snooping
MLD	MLD proxy and snooping
Quality of Service	
QoS Support	Supports PQ, WRR, and CAR queue scheduling
Wireless Software	
SSID Management	Supports multiple SSID settings
Bandwidth Control	20/40 MHz channel width management

WinkyLink

LW531R11



Smart Choice for Next-Gen Networks



Stable Wi-Fi
2.4 GHz



XPON Dual
Mode



Energy
Efficient



All-in-One
Access

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