

## XPON ONU product WIFI4 X3 Series

MCR ONU-W4-X3



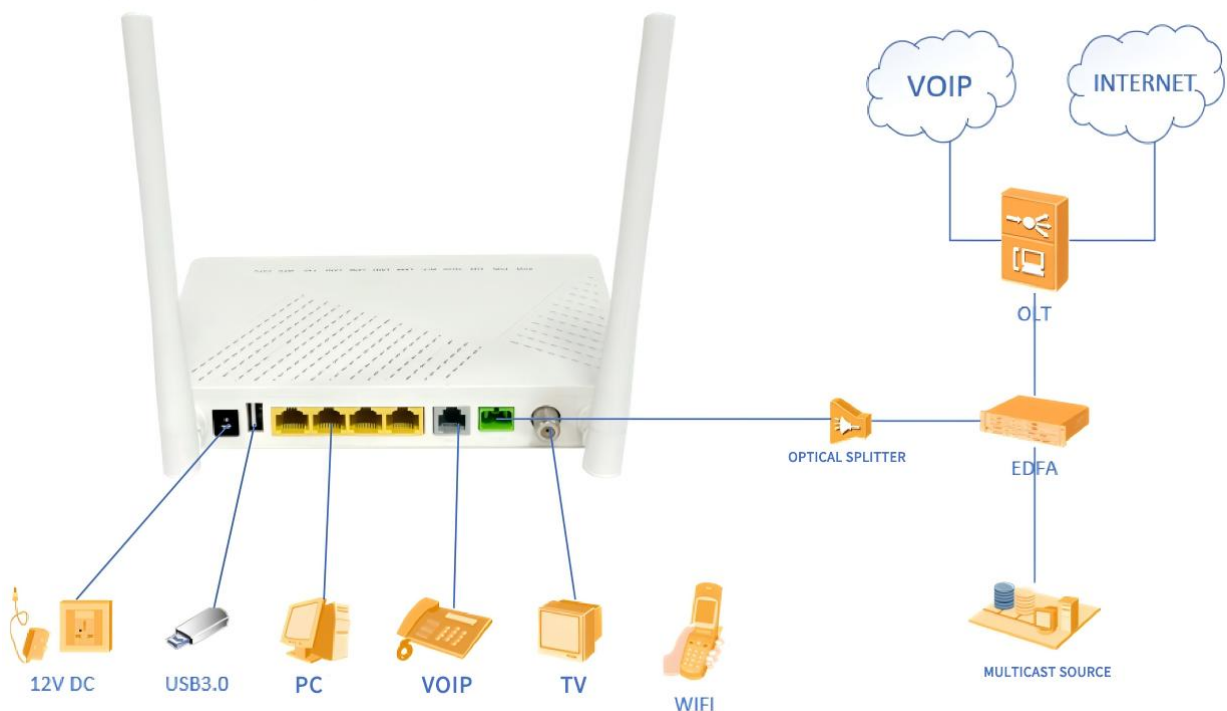
### Description:

Optical Network Unit (ONU) is a user-side device in the PON network, providing users with access services for data and other services. The main function of the ONU device is to receive optical signals in the downlink direction and convert them into Ethernet packets and transmit them to the user. In the upstream direction, they convert the Ethernet packets received from the user equipment or network into optical signals and transmit them to the optical signal through the PON network. Upper layer network.

**XF3111-X3** series is an optical network unit (ONU) product in the XPON series products developed by our company. The product uses Passive Optical Network (PON) technology, which is superior to traditional access products in many aspects such as cost performance, maintainability, and scalability.

XF3111-X3 series provides 1 Gigabit and 3 Fast Ethernet ports(or 1 Gigabit and 1 Fast Ethernet port), two 5d B gain WIFI antennas, a VOIP interface, a USB interface and a CATV radio frequency interface (optional) .

### Product Application Diagram:



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## Port Parameters Specifications:

Item	type	Technical Parameters
PON	Interface Type	No CATV: SC/UPC, With CATV: SC/APC
	Receive sensitivity	$\leq -27\text{dBm}$
	Luminous power	+0.5~+5dBm
	Transmission distance	20Km
	Working wavelength	TX: 1310nm RX: 1490nm
*CATV (optional)	Working wavelength	1550nm
	Input optical power	+2~-15dBm
	Light reflection loss	> 45dB
	Frequency Range	47-1006MHz
	flatness	$\pm 1\text{dBm}$ (47-1006MHz)
	Output level	$\geq 80\text{dBu}$
	Output impedance	75 $\Omega$
	AGC	0~-12dBm
	Carrier-to-noise ratio	$\geq 51\text{dB}$
*LAN	CTB	$\geq 65\text{dB}$
	CSO	$\geq 62\text{dB}$
*LAN	Interface Type	1 Gigabit and 1 Fast Ethernet port or 1 Gigabit and 3 Fast RJ45 interfaces
	Transmission mode	10/100/1000Mbps,10/100Mbps adaptive
*Wi-Fi	protocol	IEEE802.11a/b/g/n
	2.4G working frequency	2.400-2.4835GHz
	2.4G External Antenna	2*2MIMO,300Mbps
	Number of antennas	2 5dB high gain antennas
VoIP	SIP	Support SIP
	Audio Coding Standard	Support G.711a/G.711u/G.722/G.729 Codec
	Support	AEC/VAD/CNG and DTMF Relay, T.38FoIP/CID/CW/CF, CT/CF/CH/3WC

## Functional Parameters Specifications:

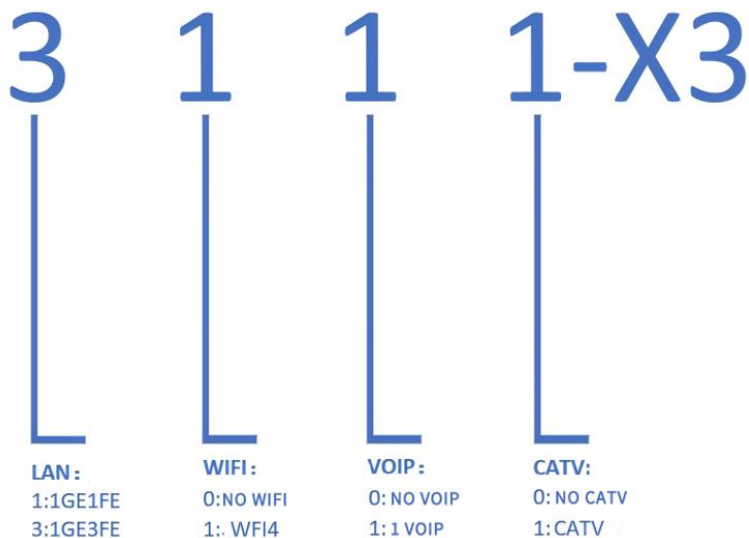
Item	type	Technical Parameters
Power related	interface	DC005 $\phi 2.1\text{mm}$
	Voltage	12V
	Rated power consumption	$\leq 10\text{W}$
Environ-ment related	Operating temperature	0~+50 $^{\circ}\text{C}$
	Working humidity	10~85%(non-condensing)
	storage temperature	-30~+60 $^{\circ}\text{C}$
size and weight	Product Size	175*110*28mm
	Package Size	267*175*40mm
	Product Weight	0.5KG
	Gross weight	0.9KG
	Box size	425*370*285mm(20pcs/box)
	Total weight	$\leq 20\text{KG}$

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## Hardware Specifications:

type	Technical Parameters
Network Type	Support EPON/GPON adaptive
Gateway	Support HG
L2 protocol	802.1D&802.1ad bridge, 802.1p Cos,802.1Q
L3 protocol	Support IPv4/IPv6, DHCP Client/Server,PPPoE, NAT, DMZ, DDNS
LAN Configuration	Support LAN IP 和 DHCP Server Configuration
Network Port	Port Mapping & Loop Detection
Network safe	Support Firewall and ACL
Multicast	Support IGMP Snooping/Proxy
CATV	Support CATV RF Interface (Optional)

## Order Guide:



For example: MCR ONU-W4-X3111

According to the model analysis: This ONU is an XPON ONU product using the 1GE1FE main control solution with wifi, voice, and CATV functions.