

MCR GROUP, INC.

XPON ONU product WIFI6 X7 AX15 Series

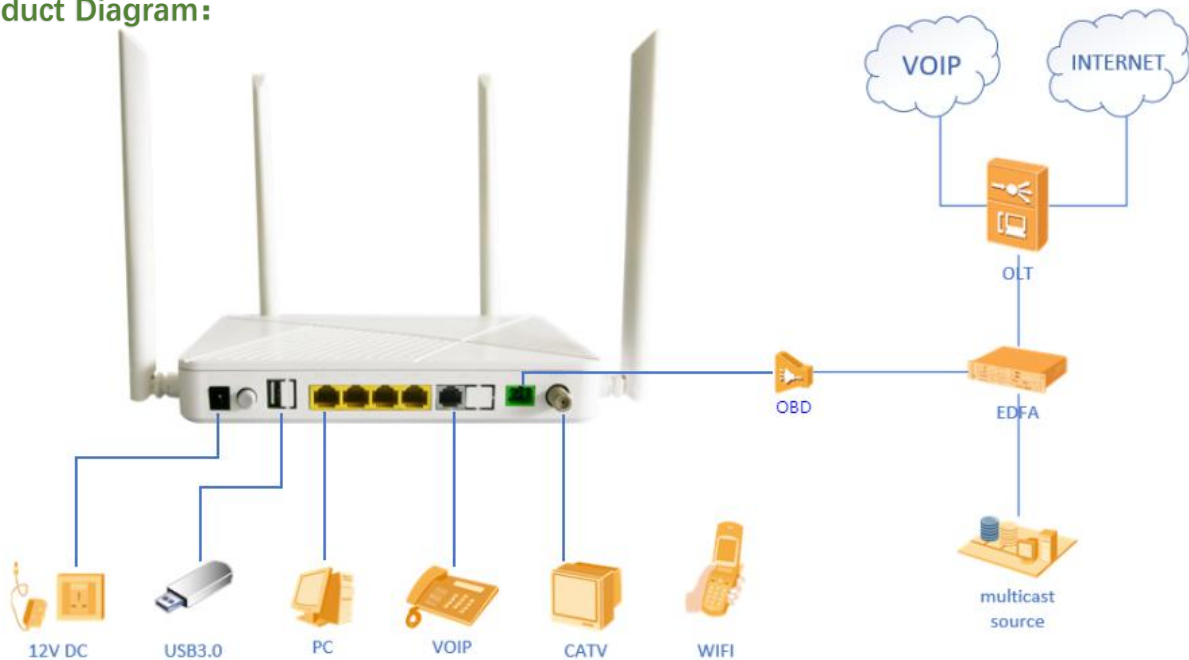
MCR ONU-W6-X7



Description:

- ONU (Optical Network Unit) is the user-side device in the PON network, providing users with access services such as data. The main function of ONU is to receive optical signals in the downstream direction and convert them into Ethernet packets for transmission to users. In the upstream direction, it converts Ethernet packets received by user equipment or network into optical signals and transmits them to the upper network through the PON network.
- The MCR ONU-W6-X7series is an optical network unit (ONU) product in the XPON series developed by our company. The product uses passive optical network (PON) technology and is superior to traditional access products in terms of cost performance, maintainability, scalability and many other aspects.
- MCR ONU-W6-X7series provides 4 Gigabit Ethernet ports, dual-band WIFI, 1 VOIP port, 1 CATV RF port , 2 USB ports.

Product Diagram:



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Interface Parameters:

Project	Type	Technical parameter
PON	*interface type	No CATV: SC/UPC With CATV: SC/APC
	receiving sensitivity	≤-27dBm
	Luminescence power	+0.5~+5dBm
	transmission distance	20Km
	operating wavelength	TX: 1310nm RX: 1490nm
*CATV	The central wavelength	1550nm
	Input light power	+2~-15dBm
	reflection loss of light	> 45dB
	frequency range	47-1006MHz
	plainness	±1dBm (47-1006MHz)
	output level	≥80dBuV
	output impedance	75Ω
	AGC	0~-12dBm
	carrier-to-noise ratio	≥51dB
	CTB	≥65dB
	CSO	≥62dB
*LAN	interface type	4 or 2 Gigabit RJ45 ports
	transmission mode	10/100/1000Mbps network adaptive
*Wi-Fi	Protocols	IEEE802.11a/b/g/n/ac/ax
	2.4G Operating Ffrequency	2.400-2.4835GHz
	5G Operating Ffrequency	5.150-5.825GHz
	2.4G External Antenna	2*2MIMO, 300Mbps
	5G External Antenna	2*2MIMO, 1201Mbps
	Number of Antennas	4 x 5dB high gain antennas
VoIP	SIP	Supports SIP
	Audio Coding Standard	Supports G.711a/G.711u/G.722/G.729 Codec
	Others	Supports echo cancellation, VAD/CNG, DTMF Relay function
		Supports T.38 fax/caller identification/call waiting/call transfer/call transfer/call hold/three-party conference
Environmental correclation	working temperature	0~+50°C
	Working humidity	10~85% (no condensation)
	Storage temperature	-30~+60°C
Size weight	product size	240 * 150 * 30mm (excluding antenna and bottom feet)
	packing measurement	366* 184*60mm
	Net weight of products	0. 48 KG
	total weight	0. 73 KG

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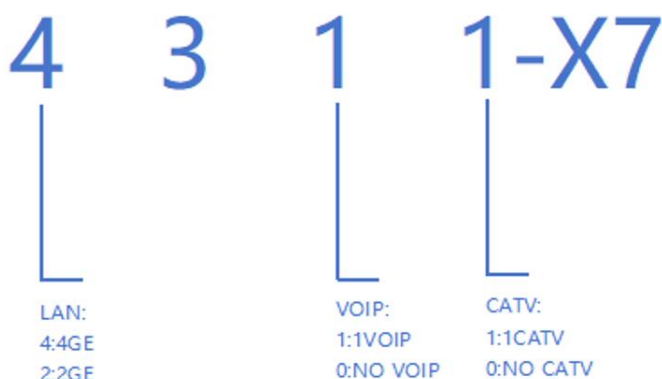
Hardware Specifications

Project	Type	Technical parameter
Power Supply Related	Connector	DC005 φ2.1mm
	Voltage	12V
	Power Consumption	≤7W
Environment-related	Operating Temperature	0~+50°C
	Operating Humidity	10~85% (non-condensing)
	Storage Temperature	-30~+60°C
Size & Weight	Product Size	200*150*31mm
	Package Size	275*245*40mm(1pc/box)
	N.W.	700g
	G.W.	1.2Kg
	Package Size	582*510*340mm(32pcs/carton)
	G.W.	≤41Kg

Functional Parameters:

Type	Technical parameter
Network Type	Supports automatic EPON/GPON mode switching
Gateway	Supports HGU function
L2 Protocol	802.1D&802.1ad bridge, 802.1pCos, 802.1Q
L3 Protocol	Supports IPv4/IPv6, DHCP Client/Server, PPPoE, NAT, DMZ, DDNS
LAN Configuration	Supports LAN IP and DHCP Server configuration
Network Port	Supports port mapping and loop detection
Network Security	Supports Firewall and ACL function
Multicast	Supports IGMP Snooping/Proxy multicast features
CATV	Support one-way CATV RF radio frequency (optional)
Network Type	Supports automatic EPON/GPON mode switching
Gateway	Supports HGU function
L2 Protocol	802.1D&802.1ad bridge, 802.1pCos, 802.1Q

Order Guide:



For example: MCR ONU-W6-X7011XWVC-AX15

According to the model, this ONU is a product with wifi, voice and CATV functions of XPON using RTL9607x master control scheme.