武汉长光科技有限公司
WUHAN YANGTZE OPTICAL TECHNOLOGIES CO.,LTD.

Opticalink M2-4020/4021
XPON ONT
Product Introduction

Version: V1.0

1 Overview

Integrated with powerful interoperability and low cost, XPON M2-4020/4021 series ONT provide triple-play services to the subscribers in FTTx application.

Compliant with ITU-T G.984 standard (GPON) and IEEE802.3-2008ah standard(EPON), M2-4020/4021 series ONT support the comprehensive triple-play services, including voice(VoIP), video (IPTV or VoD), and high-speed internet access service.

2 Hardware Specification

Parameter Name	Hardware Parameter	
PON	Optical Type	SC/PC or SC/APC(with CATV)
	Standard	ITU-T G.984 (GPON) and IEEE802.3-2008ah (EPON)
	GPON: Upstream 1.244Gbps, Downstream 2.488Gbps EPON: Upstream 1.25Gbps, Downstream 1.25Gbps	
	Wavelength	PON：Tx 1310nm, Rx 1490nm CATV：1550nm
	Sensitivity	GPON： >-28dBm (CLASS B+), Tx 0.5dBm~+5dBm, Rx -27dBm EPON： PX20+, Tx -1dBm~+4dBm, Rx -24dBm
	Overload	GPON：>-8dBm (CLASS B+) EPON： <6dBm (PX20+)
Interface Type	Ethernet	1*10/100/1000Base-T+3d*10/100 Base-T, Auto adaptive, Full/Half Duplex, RJ45 connector
	WiF	WiFi, 5dBi external antennas, MIMO 2x2 2.4GHz, IEEE 802.11b/g/n, 300Mbps

	RF	RF Type	RF coaxial connector, F type
		Bandwidth	47 ~ 1002 MHz
		Output Power	70±1dBuV(-2~-15dBm input)
Dimension	167mm(L)*115mm(W)*30mm(H) , without antenna		
Weight	280g		
Power Supply	External power adapter, 12V/1A		
Power Consumption	<8W		
Working Environment	Temperature	-5ºC to +45º C	
	Humidity	5% to 95% (no condensing)	

3 Software Features

Parameter Name	Software Parameter
Internet connection	Support Bridge, Route, Route and Bridge mixed mode Support PPPoE, DHCP, Static IP Support multiple WAN interface
LAN	Support Port rate limiting Support Loop detection IP ToS/DSCP to 802.1p mapping Support MDI/MDIX
VLAN	Support VLAN tag mode Support VLAN transparent mode Support VLAN trunk mode Support VLAN 1:1 translation mode Support VLAN QinQ mode
Multicast	Support IGMPv1/v2/v3 Support IGMP Proxy and MLD Proxy Support IGMP Snooping and MLD Snooping
QoS	Support 4 queues Support SP and WRR Support 802.1P Support DSCP
L3	Support IPv4, IPv6 and IPv4/IPv6 dual stack Support DHCP/PPPOE/Statics Support Static route Support NAT Support DHCP Server

	Support DMZ
	Support Virtual Server
	Support UPnP
	Support IGMP
CATV	Support AGC(Automatic Gain Control)
Security	Support Firewall
	Support Mac filter
	Support ACL
	Support URL filter
Wireless	Support 4 SSID
	Mixed mode
	Support No-auth, WEP, WPA-PSK and WPA2-PSK function with AES, TKIP encryption
OAM	Support OMCI (the embedded operations channel) interface as defined by ITU-T G.984.4 and G.983.2
	Support TR069
	Provisioning all kinds of services including Ethernet, WLAN and VoIP, etc. by subset of TR-098 and TR-104
	Alarming and AVC report, performance monitoring
	Remotely software image download over OMCI, as well as activation and rebooting
	Hold two software sets with software image integrity checking and automatic rollback

4 Ordering Information

Model	Product Description
M2-4020	XPON ONT 1GE+3FE+WiFi, plastic shell, external power adapter
M2-4021	XPON ONT 1GE+3FE+WiFi+CATV, plastic shell, external power adapter