XPON ONU Datasheet

3C-ONU-X401DWU

GPON/EPON ONU

WI-FI: 802.3b/g/n/ac/ax

Overview

3C-LINK 3C-ONU-X401DWU is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides different services access.

3C-ONU-X401DWU is based on mature and stable, cost-effective XPON technology.

3C-ONU-X401DWU adopts high reliability, easy management, configuration flexibility and good quality of service guarantees to meet the technical performance of EPON Stan-dard of China Telecom CTC3.0 and GPON Standard of ITU-TG.984.X
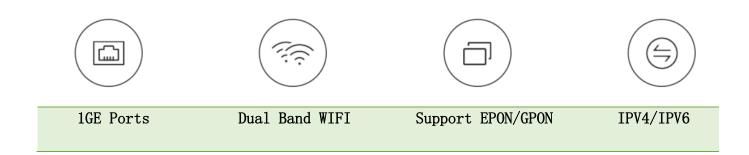
3C-ONU-X401DWU ONU supports EPON/GPON three modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON/EPON/XPON adaptive access. 3C-ONU-X401DWU based on the mature, stable, high cost performance technology, gigabit Ethernet switching, It has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee. It fully meets the ITU-T and IEEE technical standards and have good compatibility with third party OLT. It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service. 3C-ONU-X401DWU integrates wireless function which meets 802.11 b/g/n/ac/ax technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 1200Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Feature

※ Support EPON/GPON mode and switch mode automatically

※ Support Route mode for PPPoE/IPoE/Static IP and Bridge mode

※ Support IPv4 and IPv6 Dual mode

※ Support 2.4G /5.8G WIFI 802.11 b/g/n /ac/ax and 2*2 MIMO

※ Support LAN IP and DHCP Server configura-tion

※ Support Port Mapping and Loop-Detect Support Firewall function and ACL function Support IGMP Snooping/Proxy multicast feature

※ Support TR069 remote configuration and maintenance

※ Specialized design for system breakdown prevention to maintain stable system

1GE Ports	Dual Band WIFI	Support EPON/GPON	IPV4/IPV6

Parameter

HARDWARE FEATURES	
Interface	1 SC/UPC Port
	4 10/100/1000Mbps RJ45 LAN Ports
	1 RJ11 Port
	1 USB 3.0 Port
Button	1 Power On/Off Button
	1 Wi-Fi On/Off Button/WPS Button
	1 Reset Button
External Power Supply	12VDC/1.5AA
VOIP Interface	FXS RJ11 interface
	G.711, G.723, G.726, G.729 protocol
	T30, T38, G.711 ,FAX mode, DTMF Delay
USB	USB 2.0 and USB3.0
IEEE Standards	IEEE 802.1, 802.1D, 802.3i, 802.1p, 802.1q, 802.3u, 802.3ab.802.3az. 802.3b, 802.3g. 802.3n. 802.3ac, 802.3ax
Dimensions (W x D x H)	120*87*32MM

Antenna Type	Omni directional 2T2R
Antenna Gain	2 × 5dBi
XPON Standards	GPON /EPON
Optical Module	Class B+
Optical Wavelength	Transmit at 1310nm
	Receive at 1490nm
Transmission Distance	20Km Max
Bandwidth	Downstream up to 1.25Gbps for EPON. 2.5Gbps for GPON
	Upstream up to 1.25Gbps
WIRELESS FEATURES	
Wireless Standards	IEEE 802.11b, 802.11g, 802.11n, 802.3ac, 802.3ax
Wireless Speeds	Up to 1200Mbps (dynamic)
Frequency	2.4G and 5.8G
Transmit Power	<20dBm(EIRP)
Wireless Functions	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
Wireless Security	64/128-bit WEP,WPA / WPA2,WPA-PSK/ WPA2-PSK encryption, Wireless MAC Filtering

SOFTWARE FEATURES

Quality of Service	4095 GEM Ports
	Distinguishes priority using Application classifier
	Different Transmission Queues
Security	NAT Firewall, SPI Firewall
	MAC / IP / URL Filtering
	Firewall for Denial of Service(DoS), SYN Flooding, Ping of Death
	IP and MAC Address Binding
Management	OAM
	Web Based Configuration
	Command Line Interface, SSL for TR-069
	Web Based Firmware Upgrade
WAN Connection Type	PPPoE, Dynamic IP, Static IP, Bridge
	Support Multiple WAN connections
DHCP	Server, Client, DHCP Client List,
	Address Reservation, DHCP relay
Port Forwarding	Virtual server, Port Triggering, DMZ, ALG, UPnP
Dynamic DNS	DynDns, NO-IP
VPN Pass-Through	PPTP, L2TP, IPSec Pass-through
Advanced Features	SN, Password, SN+ Password Authentication Mode
	Upstream and Downstream FEC, AES encryption
	Dynamic Bandwidth Allocation(DBA) support NSR/SR
	802.1Q VLAN, Static Routing, RIP v1/v2 (optional);

	IGMP v1/v2 /v3
OTHERS	
Certification	CE, RoHS
Package Contents	3C-ONU-X401DWU
	RJ-45 Ethernet Cable
	Quick Installation Guide
	Power Adapter
System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™, Windows 7, Windows 8, MAC® OS, NetWare®, UNIX® or Linux.
Size	293*144*54mm
Environment	Operating Temperature: 0℃~40℃ (32℉~104℉)
	Storage Temperature: -40℃~70℃ (-40℉~158℉)
	Operating Humidity: 10%~90% non-condensing
	Storage Humidity: 5%~90% non-condensing

Lights Introduction

Pilot Lamp	Status	Description
WIFI	ON	The WIFI interface is up.
	BLINK	The WIFI interface is sending or/and receiving data (ACT).
	OFF	The WIFI interface is down.
PWR	ON	The device is powered up.
	OFF	The device is powered down.
INTERNET	ON	The device has registering to the PON System
	BLINK	The device will be registering to the PON System
	OFF	The device registration is incorrect
LOS	BLINK	The device doses not receive optical signals or with low signals.
	OFF	The device has received optical signal.
PON	ON	The device has registered to the PON system.
	BLINK	The device is registering the PON system.
	OFF	The device registration is incorrect.
LAN1-LAN4	ON	Port (LAN) is connected properly (LINK).
	BLINK	Port (LAN) is sending or/and receiving data (ACT).
	OFF	Port (LAN) connection exception or not connected.

Application