DN-HG8100C

1GE+CATV XPON ONU Product Specification

Product Overview

DN-HG8100C model ONU is a user terminal device independently developed by **DOMUSNTW** in line with such industrial background. The device has built-in two-layer switching function. It is compact and compact, and is an FTTH optical network unit with high performance and low power consumption. DN-HG8100C ONU can automatically switch EPON/GPON working mode and can be used in EPON/GPON network, which is very suitable for the application requirements of various data services in FTTH networking scenarios of various operators.

Product Specifications

Hardware Specifications	
Size	90*90*24mm
Optical signal access	EPON/GPON
User interface	1GE+CATV
Indicator light	POWER/PON/LOS/LAN/CATV
Button	Reset Button
Weight	95g
Power adapter input	100V～240V AC,50Hz～60Hz
PowerSupply requirement	12V DC, 1A
Power consumption	<6w
Working temperature	-10°C ~ +45°C
Environment humidity	5% ~ 95% (Non-condensing)

PON Interface	
Module type	Class B+ SC/APC
Working wavelength	up 1310nm，down 1490nm ;CATV：1550nm
TX Optical power value	0.5～4dbm
RX Optical power sensitivity	-28dBm
Transmission distance	0～20km
Transmission rate	GPON:Up 1.244Gbps；down 2.488Gbps EPON:Up 1.244Gbps；down 1.244Gbps

Ethernet Interface	
Interface type	1* RJ45
Interface parameters	1*10/100/1000Mbps

CATV Interface

Optical receiving wavelength	1550±10nm
Optical reflection loss	≥45dBm
RF, WDM, optical power	+2~-15dBm
RF frequency range	47~1000MHz, RF output
impedance	75Ω
RF	output level 78dBuV
AGC range	0~-12dBm
MER	≥32dB@-15dBm

Features

- GPON working mode Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- EPON working mode compliant with IEEE 802.3ah specification and OAM protocol
- Supports the WEB configuration function
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, etc
- Layer 3 Home Gateway/CPE features with Hardware NAT, supports Route mode, etc
- Supports the configuration of Ethernet interface rates, working modes,MDI/ MDIX auto-negotiation mode, and Pause flow control
- Provides performance statistics on all Ethernet lines
- Support multicast IGMP snooping
- Supports the L2 wire speed forwarding
- Supports the AES-128 algorithm for data encryption of downlink data
- Support CATV interface for Video Service

Highlights

- Compatible with 95% Third-party OLTs (Including Huawei/ZTE/Fiberhome/BT-PON and so on)
- Spport EPON/GPON mode and switch mode automatically
- Support Route PPPoE/DHCP/Static IP and Bridge mode
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support IPv4/IPv6 dual mode
- Support Firewall function and IGMP multicast feature
- Support LAN IP and DHCP Server configuration
- Support Port Forwarding and Loop-Detect

Interface

Compatible with OLT Huawei/ZTE/Fiberhome

POWER   PON   LOS   LAN   CATV

1 DC
2 RESET
3 LAN
4 PON
5 CATV

1 2 3 4 5

Networking application

Typical access scheme: FTTH
Typical services: broadband Internet access, WIFI

internet   Media Data   Remote network   VOIP
           Center   management
                        platform

OLT   splitter   DN-HG8100C

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