UNYx

ONU – 1 port 100/1000 + RF

Модел: UNY01G11AX

Fiber to the home multi service access EPON ONU. It's based on the mature, stable, high cost performance EPON technology and has gigabit Ethernet switching, WDMand HFC technology. FD600-301 series has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipmentmeet the IEEE802.3ah requirements and have good compatibility with thirdparty manufacturers OLT.

EPON technology is a kind of emerging technology which takes advantage of PON technology and Ethernet technology also is a kind of point to multi-point network technology. OLT through the passive optical network to connect multiple ONU with single fiber bidirectional technical can rarely used fiber resources to meet the operators of the multi-user access requirements.

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.

Main Features

- 1GE + CATV
- WDM technology with downlink wavelength 1550nm and 1490nm
- Only needs one-core fiber to transmit data and CATV service

Functional Feature

- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah Standard
- Up to 20KM transmission Distance
- Support data encryption, group broadcasting, port Vlan separation ,etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support port mode of VLAN configuration
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function
- Support port flow control
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

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Item	Parameter
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM
User Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance 1 RF output Female F-Type Connector
Power Interface	12V DC Power supply
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0～4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125μm single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support loop detection
Network Management	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
Management Function	Status monitor, Configuration management, Alarm management, Log management
Shell	Plastic casing
Power	<5W, 12V/0.5A power supply adapter

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Physical Specifications	FD600-301GA-HZ220: Item Dimension：160mm(L)*120mm(W)*32mm(H) Item weight：0.3kg FD600-301G-HZ630: Item Dimension：110mm(L)*70mm(W)*30mm(H) Item weight：0.2kg
Environmental Specifications	FD600-301GA-HZ220: Operating temperature: 0 to 50ºC Storage temperature: -40 to 85ºC Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing) FD600-301G-HZ630: Operating temperature: 0 to 50ºC Storage temperature: -30 to 60ºC Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 5% to 95%(Non-condensing)

CATV part

Item	Parameter
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-12dBm～2dBm
RF frequency	47MHz~1000MHz
RF output lever	≥65dBuV (@-12~-2dBm@85MHz)
Flatness	<±1.5db
CNR	>42dB (@-10dBm@DS22 Channel)
CSO	>60dBc (@-10dBm@DS22 Channel)
CTB	>65dBc (@-10dBm@DS22 Channel)
RF output return loss	>10dB
RF impedance	75Ohm