

Codificación: ONU2011	ESPECIFICACIONES TECNICAS	
Fecha: 01/07/2011		
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Asunto:	ONU2011 - RED GPON	


GEPON ONU with 4FE+2VOIP+RF

1 Brief Introduction

GEPON ONU, is designed mainly for FTTH use and FTTO/FTTB use as well. GEPON ONU series support 1000Base-PX10/PX20 standard with 1:62 maximum optical splitting ratio and 10/20km distance, and provide 1 uplink GE PON port. ONU 4xx together with OLT4500S could realize flexible network structure and maintenance and provide total FTTx solutions.



- Support 1000Base-PX10/PX20 two PON physical interface
- Support CTC V1.3 OAM and expansion
- Support DBA and various SLA
- In line with uplink GE-PON port of IEEE 802.3ah;
- Support 802.3ah OAM and expansion
- Support 4094 VLAN (802.1Q) to divide and isolate users,
- Support broadcasting prevention
- Support 802.1D RSTP rapid spanning tree protocol ;
- Support port speed limit and bandwidth control
- Support IGMP Snooping V2 group broadcasting function
- Support WEB/CLI local management
- VoIP support SIP soft switch protocol
- Support various IP acquirement methods such as PPPoE/DHCP/ static IP
- Independent CATVRF module to support single fiber or double fiber mode to provide video services

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- Support ONU's auto detection/ link test / remote upgrade
- Its designing realizes surge voltage prevention and lightening prevention

Technical Specification

Transmission Distance:

20KM

Service port

410/100Base-T;

2POTS;

1 CATV RF port (F type-Male)

Management port

1 RS232 console interface (RJ45);

4FE in-band web management port

Full load power consumption: <10W

Temperature and humidity

-5°C~50°C, 10%~95%

Center wavelength:

Tx:1490nm;

Rx:1310nm;

Analog TV:1510

CATV module

FTTH type CATV module:

receiving optical power +2dBm~-8dBm,

power level output>75dBuv

Standard: Compliant with IEEE802.3ah

VLAN

support VLAN in line with IEEE 802.1Q standard,

4KVLANat most ,and port-based VLAN.

IGMP

Support IGMP V2 snooping.

CTC controlling group broadcasting

STP:

Support RSTP

VoIP protocol

Support SIP,T.38 fax protocol;

support G.723.1、G.729A、G.711 standard ITU code

CATV video services

Independent CATV RF module , enable to remote control the module switch with

OAM

Independent CATV RF module to support single fiber or double fiber mode to provide

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video services

RF video output bandwidth

47-862MHz

Bandwidth/speed control

Support port-based bandwidth/speed control with programming available

MAC address

8k MAC

Flow control

Support IEEE 802.3x flow control

Support Back-pressure based flow control

QoS

802.1p, Port, MAC, TOS, and DiffServ (IPv4/IPv6) based QoS packet classification with four priority queues

OAM

SNMP /CLI, support CTC V1.3 OAM and expansion

Loading and upgrading

Support FTP/TFTP loading and upgrading

Maintenance

Support debugging and information output,

PING and Telnet remote maintenance