

OP-K0401 HGU EPON ONU



OP-K0401 series is 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. OP-K0401 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.

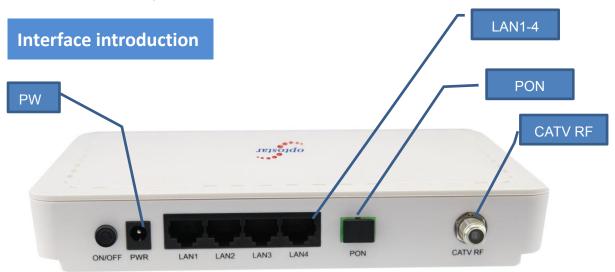
It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm. It only needs one-core fiber to transmit data and CATV service.

Features

- 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





Indicator			Description
1	OPTIN	optical signals	On: Optical in normal; Blinking: Optical power lower than receiver sensitivity;



			Off: Optical link abnormal;
2	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
3	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received
4	LINK	ONU/ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: Failed to register to OLT;
5	SYS	System	On:The ONU/ONT system working properly; Blinking: The ONU/ONT software upgrade; Off:The ONU/ONT working abnormal;
6	LANn	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;

Parameter

Item	Parameter		
	1 EPON optical interface		
	Meet 1000BASE-PX20+ standard		
	Symmetric 1.25Gbps upstream/downstream		
	SC single-mode fiber		
	split ratio: 1:64		
PON Interface	Transmission distance 20KM		
	4*10/100/1000M auto-negotiation		
	Full/half duplex mode		
	RJ45 connector		
	Auto MDI/MDI-X		
	100m distance		
User Ethernet	1 RF output		
Interface	Female F-Type Connector		
Power Interface	12V DC Power supply		
	Wavelength: Tx 1310nm, Rx1490nm		
DOM	Tx Optical Power: 0~4dBm		
PON	Rx Sensitivity: -27dBm		
Optical	Saturation Optical Power: -3dBm		
Parameter	Connector Type: SC		
ratailletei	Optical Fiber: 9/125qm 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
Physical Specifications	Item Dimension: 160mm(L)*120mm(W)*32mm(H) Item weight: 0.3kg
Environmental Specifications	Operating temperature: 0 to 50°C Storage temperature: -40 to 85°C Operating humidity: 10% to 90%(Non-condensing) Storage humidity: 10% to 90%(Non-condensing)

CATV

Item	Parameter
Wavelength	1100-1650nm
Optical return loss	>45dB



Input optical power	-18dBm∼0dBm
RF frequency	47MHz~1000MHz
RF output lever	≥78dBuV (@-12~-2dBm@85MHz)
AGC control accuracy	<±1db
Flatness	<±1.5db
CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>60dDo (@ 10dDm@DC22 Channel)
	>60dBc (@-10dBm@DS22 Channel)
СТВ	>60dBc (@-10dBm@DS22 Channel)
CTB RF output return loss	
	>60dBc (@-10dBm@DS22 Channel)

Application

- ♦ Solution: FTTH、FTTB、FTTO、PON+EOC
- ♦ Business: Broadband Internet、IPTV、VOD、IP Camera、WIFI

Network Construction

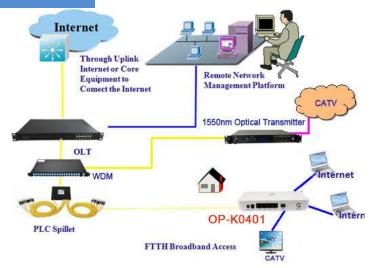


Figure: OP-K0401 Application Diagram



Ordering Information

Product Name	Product Model	Descriptions
HGU EPON ONT	OP-K0401	4*GE Ethernet interface,1*RF interface, 1 EPON interface, plastic casing, external power supply adapter

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