

FD5101BF

xPON ONU



POF(IN)



G/EPON dual mode



PoE/PoE+(OUT)



Gigabit Ethernet

Brief Views

FD5101BF xPON ONU products are specially designed for FTTB/FTTO/POL application scenarios, providing multi-port data services based on xPON network.

The product provides 1 G/EPON adaptive PON port for uplink, 1*10/100/1000BASE-T electrical ports for downlink, and supports PoE/PoE+ function.

It is used for data transmission and can supply power to connected cameras, APs and other terminals.

Specially, The PON uplink port supports the access of optical-electrical composite cables, providing the equipment with both the high bandwidth of optical fiber and the power supply capacity of copper wire, solving the problem of power supply.



Functional Feature

- Comply with ITU-T G.984, IEEE802.3ah standard
- Support PoE/PoE+ function
- Support ONU automatic discovery/link detection/software remote upgrade
- Support multiple registration methods of SN and LOID+Password
- Support WEB/CLI/SNMP management
- Supports Dynamic Bandwidth Allocation (DBA)
- Support AES encryption and decryption
- Support broadcast anti-storm function
- Support IGMP/MLD Snooping
- Support ACL control
- Support MAC address learning
- Support port-based speed limit
- Support port flow control
- Support loop detect
- Support VLAN/VLAN Stacking/QinQ

Product Interface and LED



LED Definitions

Indicator		Description
PWR	Power Indicator	On: The power supply to the device is normal Off: The power supply to the device is abnormal
PON	PON Link Indicator	On: The optical link has been established Off: Discovery and registration not completed
LOS	Light signal indicator	On: No optical signal input or abnormal optical signal input Off: Optical signal input is normal
POE	POE status indicator	On: PoE power supply is working Off: PoE power supply is down
LAN	Network port connection indicator	On: The network port has been connected Blinking: Data is being transmitted on the network port Off: The network port is not connected
PoF	POF status indicator	On: POF is receiving power normally Off: POF not powered or powered abnormally

Product Specification

Mechanics	
Dimensions	127mm*56mm*23mm
Weight	130g

Hardware		
User Port (LAN)		RJ-45 connector 1* 10/100/1000Mbps adaptive network port (PoE Power supply) Full/Half duplex Auto MDI/MDI-X
Indicators		PWR / PON / LOS / LAN / POE / POF
PON Port		EPON: 1000BASE-PX20+ symmetric GPON: Class B+/Class C+
		EPON: 1.25Gbps downstream/upstream GPON: 2.488Gbps/1.244Gbps downstream/upstream
		SC/UPC(APC optional), supports optical-electric composite cable power supply
		Wavelength Transmit: 1310nm Receiver: 1490nm
		Receiving sensitivity EPON: -27dBm GPON: -28dBm
		Saturated power EPON: -3dBm GPON: -8dBm
		Transmitting power EPON: 0~4dBm GPON: 0.5~5dBm



Power supply

POF IN (optical-electric composite cable power supply, Standard PoE protocol),

Input voltage	44-56V
Support PoE/PoE+(PSE)	
PoE output voltage	44-56V
PoE output power	25W
DC	12V/0.5A
Power consumption	2W
Maximum machine power consumption	27W

Environment

Working temperature

-10 to 50° C

Ambient humidity

10% ~ 90% (Non-condensing)

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