



# FD5008/5016/5024 Series

**xPON MDU** 









+ Gigabit Ethernet

## **Brief Views**

FD5008/5016/FD5024 series xPON MDU 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, 8/16/24 10/100/1000BASE-T electrical ports for downlink, and supports PoE/PoE+ function (optional). It is used for data transmission and can supply power to connected cameras, APs and other terminals.





### **Functional Feature**

- Comply with ITU-T G.984, IEEE802.3ah standard
- Support PoE/PoE+ function (optional)
- 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
- Support PoE/PoE+ management

#### **Product Interface and LED**



Figure FD5016BF

## **LED Definitions**

Indicator		Description
PWR	Power Indicator	On: The power supply to the device is normal
PON	PON Link Indicator	Off: The power supply to the device is abnormal On: The optical link has been established Off: Discovery and registration not completed
SYS	System indicator	Blinking: The device has been started  Off: The device is not running or is starting
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 (Green):PoE power supply is working Off: PoE power supply is down
LAN	Network port connection indicator	On (Blue):The network port has been connected Blinking: Data is being transmitted on the network port Off: The network port is not connected
PoE+LAN	PoE+LAN indicator	On (Cyan):port has been connected and PoE is working Blinking: Data is being transmitted on the network port Off: The network port is not connected

## **Product Specification**

Mechanics	
Dimensions	330mm(L) x 260mm(W) x 44mm (H) (FD5016/FD5024) 280mm(L) x 185mm(W) x 44mm (H)( FD5008)
	About 2.27kg (FD5024B)/2.99kg(FD5024BF)
Weight	About 2.25kg (FD5016B)/2.79kg(FD5016BF) About 1.31kg(FD5008B)/1.62kg(FD5008BF)

Hardware			
User Port (LAN)		RJ-45 connector	
		8* 10/100/1000Mbps adaptive network port (FD5008)	
		16* 10/100/1000Mbps adaptive network port (FD5016)	
		24* 10/100/1000Mbps adaptive network port (FD5024)	
		Full/half duplex	
		Auto MDI/MDI-X	
Indicators		PWR / PON / SYS / LOS / LAN / POE / POE+LAN	
DON Down	DOM	EPON: 1000BASE-PX20+ symmetric	
PON Port	PON	GPON: Class B+/Class C+	

	PON	EPON: 1.25Gbps downstream/upstream GPON: 2.488Gbps/1.244Gbps downstream/upstream	
	Wavelength	Transmit: 1310nm	Receiver: 1490nm
	Receiving sensitivity	EPON: -27dBm GPON: -2	8dBm
	Saturated power	EPON: -3dBm GPON: -8	dBm
	Transmitting power	EPON:0~4dBm GPON: 0.	5 $\sim$ 5dBm

Power supply		
Support PoE/PoE+(PSE)	upport PoE/PoE+(PSE)	
PSE output voltage	48V DC	
	240W (FD5016BF)	
PoE output power	360W (FD5024BF)	
	120W (FD5008BF)	
Single port maximum output power	30W	
	FD5008B:20W	
	FD5008BF:155W	
Maximum machine power consumption	FD5016B:30W	
	FD5016BF:285W	
	FD5024B:30W	
	FD5024BF:430W	

Environment		
Working temperature	-10 to 50° C	
Ambient humidity	10% ~ 90% (Non-condensing)	

## **Ordering Information**

NO.	Product Model	Specifications
1	FD5008B	1*PON+8*GE
2	FD5008BF	1*PON+8*GE(POE/POE+)
3	FD5016B	1*PON+16*GE
4	FD5016BF	1*PON+16*GE(POE/POE+)
5	FD5024B	1*PON+24*GE
6	FD5024BF	1*PON+24*GE(POE/POE+)

#### Copyright © Shenzhen C-Data Technology Co., Ltd. 2023. All rights reserved.

Without the prior written consent of C-DATA, any reproduction, excerpting, backup, modification, translation or any other form of commercial use of this document or any portion of this document, and in any form or by any means, to transmit the document are prohibited.