



**BDCOM**

## BDCOM P1501D1 Series Commercial Gigabit ONU

## BDCOM P1501D1 Series

### Product Overview

BDCOM P1501D1 Series are smart ONUs with 1 Gigabit port designed for multi-service networks. It is complied with IEEE802.3ah and relevant requirements for EPON ONU regulated in Technical Requirements of YD/T 1475-2006—Ethernet-Based EPON and China Telecom EPON Technical Requirement. BDCOM P1501D1 Series can be well connected with OLTs from the mainstream manufacturers.



P1501D1 Series

### Product Characteristics

#### ■ High Access Capacity

It supports the symmetric uplink/downlink 1Gbps PON transmission rate. Connected with BDCOM OLTs, it can realize 1:64 splitting ratio. The network covering radius can reach to 20km.

#### ■ Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, BDCOM has developed techniques including VLAN, STP, ACL, QoS, security filtering and Broadcast Storm Control.

#### ■ High Service Control Capability

It supports DBA and Rate-Limit. It supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to appropriately share 1Gbps bandwidth resource. It also supports QOS function, which guarantees a reliable service quality and service priority.

#### ■ Rich OAM Functions

It supports standard OAM and expanded OAM defined by Chinese Telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OAM defined by BDCOM.

■ **Complete Interaction Capacity**

It is complied with IEEE802.3ah and relevant requirements for EPON ONU regulated in Technical Requirements of YD/T 1475-2006—Ethernet-Based EPON and China Telecom EPON Technical Requirement 2.1/3.0.

■ **Advanced Energy-saving Technique**

It supports the “GreenTouch” architecture and “Smart@CHIP”.

## Technical Parameters

Item	P1501D1 Series
User side interface	1 fixed 10/100/1000M BASE-T auto-adaptive RJ45 interface
PON Interface	Symmetric uplink/downlink 1Gbps transmission rate Network coverage diameter: 20KM Type of the optical interface: SC/UPC Hi-sensitivity optical receiver: ≤-27dBm Radiation power: 0-4 dBm Security: ONU authentication mechanism
Standards	IEEE802.3ah PRC Community Industry Standard (YD/T 1475-2006) IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP ITU-T Y.1291
VLAN	64 VLAN (1~4094) Port based VLAN IEEE 802.1Q VLAN CTC2.1/3.0 defined VLAN
Multicast	IGMP-Snooping CTC defined dynamic multicast function MLD-Snooping

QoS		Backpressure flow control (half-duplex)
		IEEE 802.3x flow control (full duplex)
		Prevent Head of Line mechanism
		IEEE 802.1p, CoS
		Four priority queues on each port
		WR, SP and FIFO queue schedule algorithms
Reliability		Port rate limit
		Loop detect
Network Security		Dying-Gasp
		MAC address number limit
		Port protection
Management configuration		Port storm control
		Management modes including CLI, TELNET
Dimensions (W×D×H)	mm	Software upgrade through TFTP and WEB
		Local or server syslog
Heat dissipation		130×100×28
		Installation: plug and play
Environment		The heat generated by the device in a long-time use (24 hours) cannot lead to the degrading of the performance and the deformation of the components.
		Operating environment: 0℃~45℃; 10%~85% non-condensing
Power supply		Storage environment: -40℃-80℃; 5%-95% non-condensing
		DC12V/0.5A (external adaptor power supply)
Power consumption		< 6W

## Ordering Information

Product Model	Description
BDCOM P1501D1 Series	FTTH/O ONU, 1 EPON interface (SC/UPC), 1 GE, plastic, DC12V/0.5A external adaptor

**For More Information**

For more information about **BDCOM P1501D1 Series**, please contact your local BDCOM account representative.

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