BDCOM P1501D1 Series
Commercial Gigabit ONUs

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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.

Main 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. The transmission distance can expand to 60km if combing the ONU with PON relay.

■ Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONU, BDCOM has developed techniques including VLAN, 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".

Specifications

Item	P1501D1 Series
User side interface	1 fixed 10/100/1000M 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
Dimensions mm (W×D×H)	130×100×28 mm (desktop installation)
Environment	Operating environment: 0 ℃ ～ 50 ℃ ; 10% ～ 85% non-condensation
	Storage environment: -40℃-80℃; 5%-95% non-condensation
Power supply	DC12V/0.5A external adaptor power supply
Power consumption	＜ 6W
Hull	Plastic

Software Features

P1501D1 Series supports:

➢ layer-2 switching capacity and meets the requirement of uplink/downlink wire-speed forwarding;

➢ ACL;

➢ IEEE 802.3x flow control (full duplex) protocol;

➢ IEEE 802.1Q protocol, VLAN division based on the user physical ports, VLAN, VLAN tagged/ untagged, VLAN Transmission, VLAN priority tag, VLAN filtration;

➢ DBA;

➢ UNI port rate limitation;

➢ port mirroring;

- ➢ QOS, FIFO, SP and WR priority scheduling;

- ➢ IGMP Snooping and dynamic controllable multicast defined by CTC;

- ➢ port loopback detection;

- ➢ dying-gasp.

Ordering Information

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