BDCOM P1501DT Series
Commercial Gigabit ONU

BDCOM P1501DT Series

Product Overview

BDCOM P1501DT Series are smart ONUs with single 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 P1501DT Series can be well connected with OLTs from the mainstream manufacturers.

P1501DT 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	P1501DT Series
User interface	1 GE
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
	Port rate limit
Reliability	Loop detect
	Dying-Gasp
Network Security	MAC address number limit
	Port protection
	Port storm control
Management configuration	Management modes including CLI, Web, SNMP, TELNET
	Software upgrade through TFTP and WEB
	Local or server syslog
Dimensions mm (W×D×H)	105×75×26
	Installation: plug and play
Heat dissipation	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.
Environment	Operating environment: 0℃～45℃; 10%～85% non-condensing
	Storage environment: -40℃-80℃; 5%-95% non-condensing
Power supply	DC12V/0.5A (external adaptor power supply)
Power consumption	＜ 6W

Ordering Information

Product Model	Description
BDCOM P1501DT	FTTH/O ONU, 1 EPON interface (SC/UPC), 1 GE, plastic hull, DC12V/0.5A, external adaptor

For More Information

For more information about **BDCOM P1501DT Series**, please contact your local BDCOM account representative.

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