

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 Multicast	64 VLAN (1~4094)
	Port based VLAN
	IEEE 802.1Q VLAN
	CTC2.1/3.0 defined VLAN
	IGMP-Snooping
	CTC defined dynamic multicast function
	MLD-Snooping



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 Loop detect Dying-Gasp MAC address number limit Port protection Port storm control Management configuration Dimensions mm Management modes including CLI, TELNET Software upgrade through TFTP and WEB Local or server syslog Dimensions mm Talo×100×28 Installation: plug and play 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. Power supply Power supply DC12V/0.5A (external adaptor power supply) Power consumption Possible Average and play Storage environment: -40°C-80°C; 5%-95% non-condensing		
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 Loop detect Dying-Gasp MAC address number limit Port protection Port storm control Management configuration Dimensions Mm 130×100×28 (W×D×H) Installation: plug and play 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°C ~45°C; 10%~85% non-condensing Storage environment: -40°C-80°C; 5%-95% non-condensing Power supply DC12V/0.5A (external adaptor power supply)		Backpressure flow control (half-duplex)
Reliability	QoS	IEEE 802.3x flow control (full duplex)
Four priority queues on each port WR, SP and FIFO queue schedule algorithms Port rate limit Loop detect Dying-Gasp MAC address number limit Port protection Port storm control Management configuration Management modes including CLI, TELNET Software upgrade through TFTP and WEB Local or server syslog Dimensions mm 130×100×28 (W×D×H) Installation: plug and play 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°C ~45°C; 10%~85% non-condensing Storage environment: -40°C-80°C; 5%-95% non-condensing DC12V/0.5A (external adaptor power supply)		Prevent Head of Line mechanism
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$\begin{tabular}{lll} & deformation of the components. \\ & & Operating environment: $0^{\circ}\!$	Heat dissipation	The heat generated by the device in a long-time use (24 hours)
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Storage environment: -40°C-80°C; 5%-95% non-condensing Power supply DC12V/0.5A (external adaptor power supply)	Environment	Operating environment: 0° C \sim 45 $^{\circ}$ C; 10% \sim 85% non-condensing
1137		Storage environment: -40°C-80°C; 5%-95% non-condensing
Power consumption < 6W	Power supply	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

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

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