

PICOTEL PU-1501BD Series

Product Overview

PICOTEL PU-1501BD Series are smart ONUs with 1 Gigabit p ort 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. PICOTEL PU-1501BD Series can be well connected with OLTs from the mainstream manufacturers.



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, PICOTEL 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	
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Item	PU-1501BD
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
	IEEE802.3ah
Standards	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
	IGMP-Snooping
Multicast	CTC defined dynamic multicast function
	MLD-Snooping



EPON ONU 1G

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
Deliekiitu	Loop detect
Reliability	Dying-Gasp
Network Security	MAC address number limit
	Port protection
	Port storm control
Management	Management modes including CLI, TELNET
-	Software upgrade through TFTP and WEB
configuration	Local or server syslog
Dimensions mm	100×75×25
(W×D×H)	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