Optical Network Unit (ONU)

----**BDCOM P1501C**

Abiding by IEEE802.3ah, BDCOM P1501C ONU meets relevant requirements of GEPON ONU regulated in *Technical Requirements of YD/T1475-2006—Ethernet-Based EPON* and *China Telecom EPON Technical Requirement CTC2.0/2.1.* BDCOM P1501C ONU is widely applied to the broadcast/electrical bidirectional network, FTTH/FTTO/FTTB.

P1501C

Features

Excellent access performance

They support the uplink-downlink-symmetric 1Gbps PON transmission rate, realize the maximum 1:64 coupling ratio, and have a 20km network coverage semi-diameter; with the help of BDCOM PON relays, their transmission distance can be further extended to 80km, which represents the high bandwidth, high user access ratio and long distance of PON communication.

Powerful service bearing

Rich product forms can provide many kinds of ports on the client side, easily realizing the access and integration of data, video and voice. With nearly two decades of scientific research, BDCOM specially develops for this series of ONU the following technologies such as VLAN, STP, multicast, encryption authentication, QoS, security filter, voice protocols and streaming media, so these ONUs have powerful service bearing capability.

Elaborate service control

Both SLA and DBA functions make all users to share the 1Gbps bandwidth more reasonably, realize reliable service quality, and ensure different service priorities and service qualities for different services over the network.

The advanced hardware isolation technology can easily realize the isolation and protection of different users and services.

Various OAM functions

They support CTC2.1/3.0-defined basic and extended OAM functions, including the configuration, alarm, performance monitoring, fault separation and security management. They not only provide the remote OLT management mode but also support local console platform management.

Sound interconnection

Due to compliance with the new requirements of IEEE802.3ah, YD/T 1475-2006 and CTC2.1/3.0, they can interconnect with other mainstream equipment providers' OLTs and set up hybrid networks, making carriers' network construction most cost-effective.

Advanced green technology

They are based on BDCOM advanced GreenTouch structure and the Smart@CHIP chip technology, so they are energy-saving, low-carbon and environmentally friendly.

Technical Parameters

Attributes	P1501C
LAN interface	1 fixed 10/100/1000M BASE-T auto-adaptable RJ45 interfaces
PON interface	A 1Gbps transmission rate with downlink and uplink symmetry Network coverage diameter: 30 kilometers Type of the optical interface: SC/PC Hi-sensible optical receiver: Not less than -26dBm Radiation power: 0-4dBm Security: ONU authentication mechanism
Standard	IEEE 802.3ah PRC Community Industry Standard (YD/T 1475-2006) Ethernet – II
VLAN	IEEE 802.1Q VLAN
Service quality	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WRR, SP and FIFO Rate Limitation
Physical size	170 mm(W) x 98 mm(D) x 28 mm(H)
	Installation: Plug and play
Environment requirements	Working condition: -10℃-50℃; 10%-85%; no condensation
	Storage condition: -40℃-80℃; 5%-95% no condensation
Power source	Rated input voltage: 110V～240V, 50/60Hz
	Power consumption: Up to 10W
	Authentication requirements: CCC authentication (domestic), CE authentication (international) or customer-specified authentication

Order Information

Model	Description
BDCOM P1501C	1 PON interface (SC), 1 10/100/1000M auto-adaptable electric port, external AC220V adapter