

Commercial Gigabit SFU

P1501DT ONT

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Product Overview

BDCOM P1501DT ONU is smart ONU 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 P1501DT Series can be well connected with OLT from the mainstream manufacturers.

Product Characteristics

High Access Capacity

It supports the symmetric uplink/downlink 1.25Gbps 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 1.25Gbps bandwidth resource. It also supports QOS function, which guarantees a reliable service quality and service priority.



Rich OAM Function

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".



Support 1.25Gbps uplink/downlink bandwidth



Efficient bandwidth usage and Ethernet services



The splitting ratio ups to 1:64

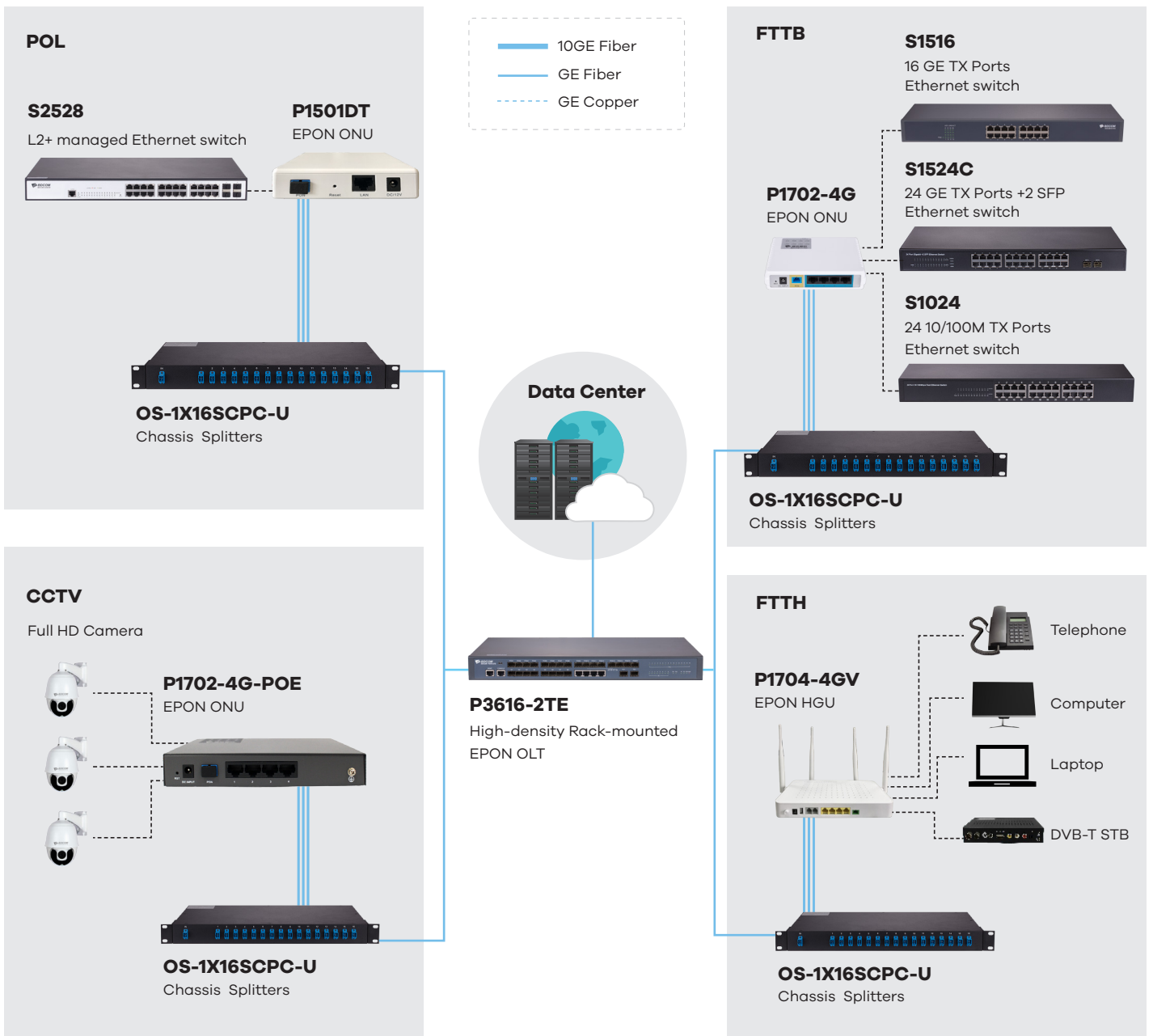
Model Lists

GP1501DT GPON ONT



- 1 EPON interface (SC/UPC)
- 1 GE TX
- 1 Reset

Application Diagram



BDCOM P1501DT ONU

System Performance

Item	P1501DT	
Service interface		
PON ports		1 SC/UPC
Ethernet ports		1 GE TX
Optical power	TX power	0-4 dBm
	RX sensitive	≤-27dBm
System capacity		
DRAM (MB)		64
Flash (MB)		64
MAC table		256
VLAN		4K
Power supply		
AC adaptor		Input: 100-240V AC Output: 12V/0.5A
Max. consumption (W)		6
System capacity		
Chassis	Dimensions (WxDxH mm)	105 x 75 x 26
	Weight (Kg)(empty)	0.1
Package	Dimensions (WxDxH mm)	148 x 123 x 47
	Weight (Kg)	0.2
Environmental Specifications		
Operating	Temperature	0~45°C
	Humidity	10%-85% (non-condensing)
Storage	Temperature	-40°C ~85°C
	Humidity	5%-95% (non-condensing)
Accessories		
Parts		Power adaptor

Technical Specifications

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
- Tag/Transparent/Aggregation /Trunk/Translation mode VLAN
- CTC2.1/3.0 defined VLAN

EPON Service

- Triple-churning algorithm encryption
- MAC/Loid/Hybrid authentication

QoS

- Backpressure flow control (half-duplex)
- IEEE 802.3x flow control (full duplex)
- Against Head of Line mechanism
- IEEE 802.1p, CoS
- Four priority queues on each port
- WR, SP and FIFO queue schedule algorithms
- Port rate limit
- SLA and DBA

Management

- Management modes including CLI, HTTP, SNMP and TELNET
- Software upgrade through TFTP and WEB, OAM, etc.
- Local or server syslog

Network Security

- MAC address number limit
- MAC ACL
- L2~4 IP ACL
- Port protection
- Port storm control

Multicast

- IGMP-Snooping
- CTC defined dynamic multicast function
- MLD-Snooping
- Multicast group limitation
- Multicast fast-leave

Reliability

- Loop detection
- Dying-Gasp
- TX/RX optical power alarm

Ordering Information

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

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