

## GPON Gigabit SFU

# GP1501DT ONT

### Product Overview

BDCOM GP1501DT is a smart ONT with 1 Gigabit port designed for multi-service networks.

BDCOM GP1501DT is complied with the international standard ITU-T G.984/988 and PRC Communication Industry Standard GPON ONT in Access Technology Requirements and China Telecom GPON Technical Requirement CTC2.0.



### Product Characteristics

#### Excellent Access Capacity

BDCOM GP1501DT supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with BDCOM OLT, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.

#### Secure Service Carrying Ability

For ensuring the secure service carrying ability of ONT, BDCOM has developed techniques including VLAN, STP, port isolation, ACL, QoS and Broadcast Storm Control.

#### High Service Control Capability

BDCOM GP1501DT supports DBA and Rate-Limit. It supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.

#### Rich OMCI Function

BDCOM GP1501DT supports the standard OMCI defined by ITU-T, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMIC defined by BDCOM.

#### Complete Interaction Capacity

BDCOM GP1501DT is complied with ITU-T G.984/988 and relevant requirements for PRC Community Industry Standard GPON ONT in Access Technology Requirements and China Telecom GPON Technical Requirement CTC2.0.

#### Advanced Energy-saving Technique

BDCOM GP1501DT supports the "GreenTouch" architecture and "Smart@CHIP".



Support 1.25Gbps uplink and 2.5Gbps downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:128

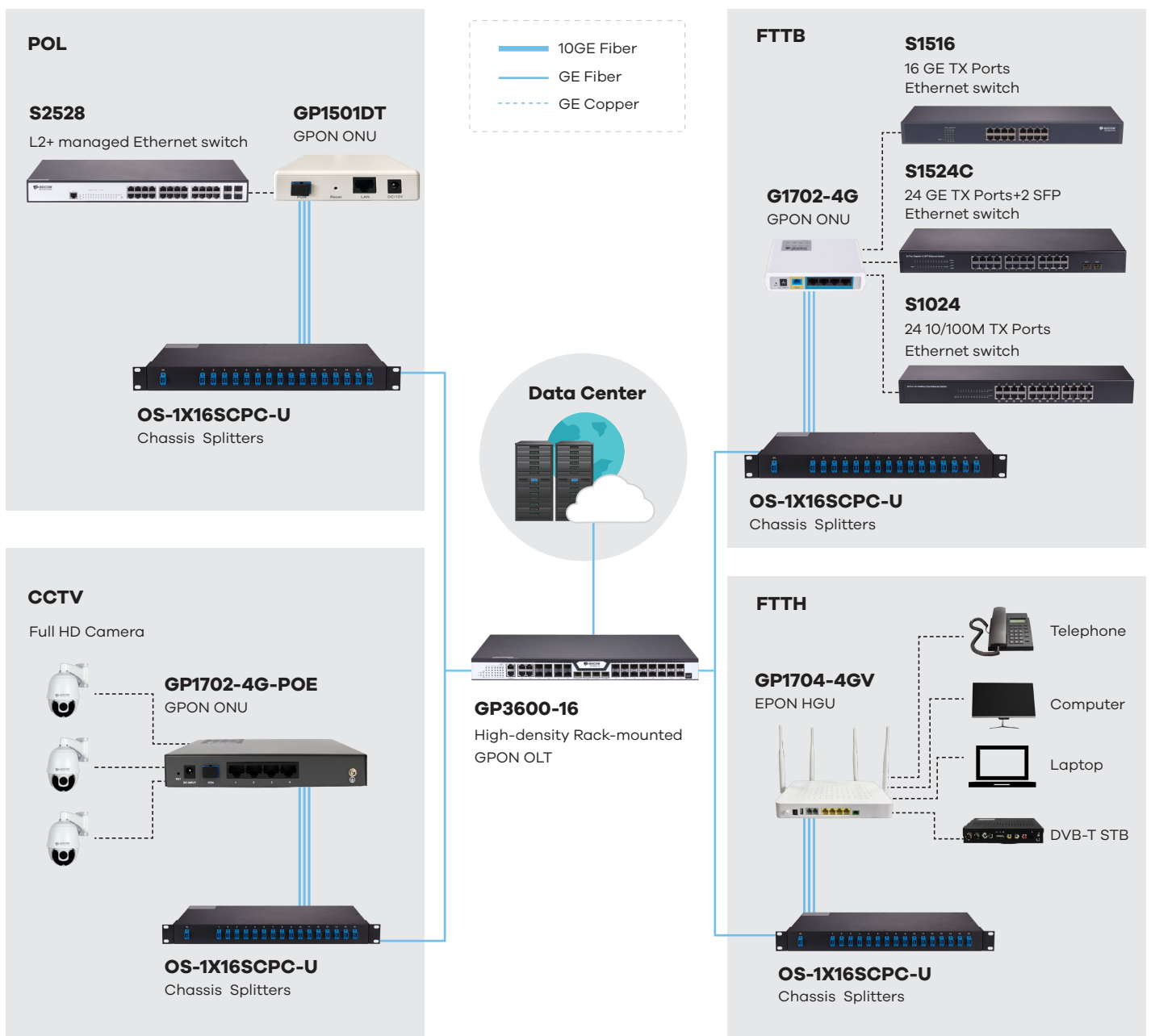
# Model Lists

## GP1501DT GPON ONT



- 1 GPON interface
- 1 xPON SC/UPC Port (SC/UPC)
- 1 GE TX Port

# Application Diagram



# System Performance

Item	GP1501DT	
<b>Service interface</b>		
PON ports	1 SC/UPC	
Ethernet ports	1 GE TX	
Optical power	TX power 0-4 dBm	RX sensitive ≤-27dBm
<b>System capacity</b>		
DRAM (MB)	64	
Flash (MB)	64	
MAC table	256	
VLAN	4K	
<b>Power supply</b>		
AC adaptor	Input:100-240V AC	Input:12V/0.5A
Max. consumption (W)	6	
<b>System capacity</b>		
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
<b>Environmental Specifications</b>		
Operating	Temperature 0~45 C	Humidity 10%~85% (noncondensing)
Storage	Temperature -40 C ~85 C	Humidity 5%~95% (non-condensing)
<b>Accessories</b>		
Parts	Power adaptor	

# Technical Specifications

## Standards

- ITU-T G.984/G.988
- PRC Community Industry Standard GPON ONT in Access Technology Requirements
- 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
- CTC2.0 defined VLAN

## EPON Service

- AES128 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, OMCI, etc.
- Local or server syslog

## Reliability

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

## Network Security

- MAC address number limit
- MAC filter
- Port protect

## Multicast

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

# Ordering Information

Model	Description
GP1501DT	FTTH/O ONT, 1 GPON interface (SC/UPC), 1 GE TX port, plastic hull, DC12V/0.5A, external adaptor

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