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

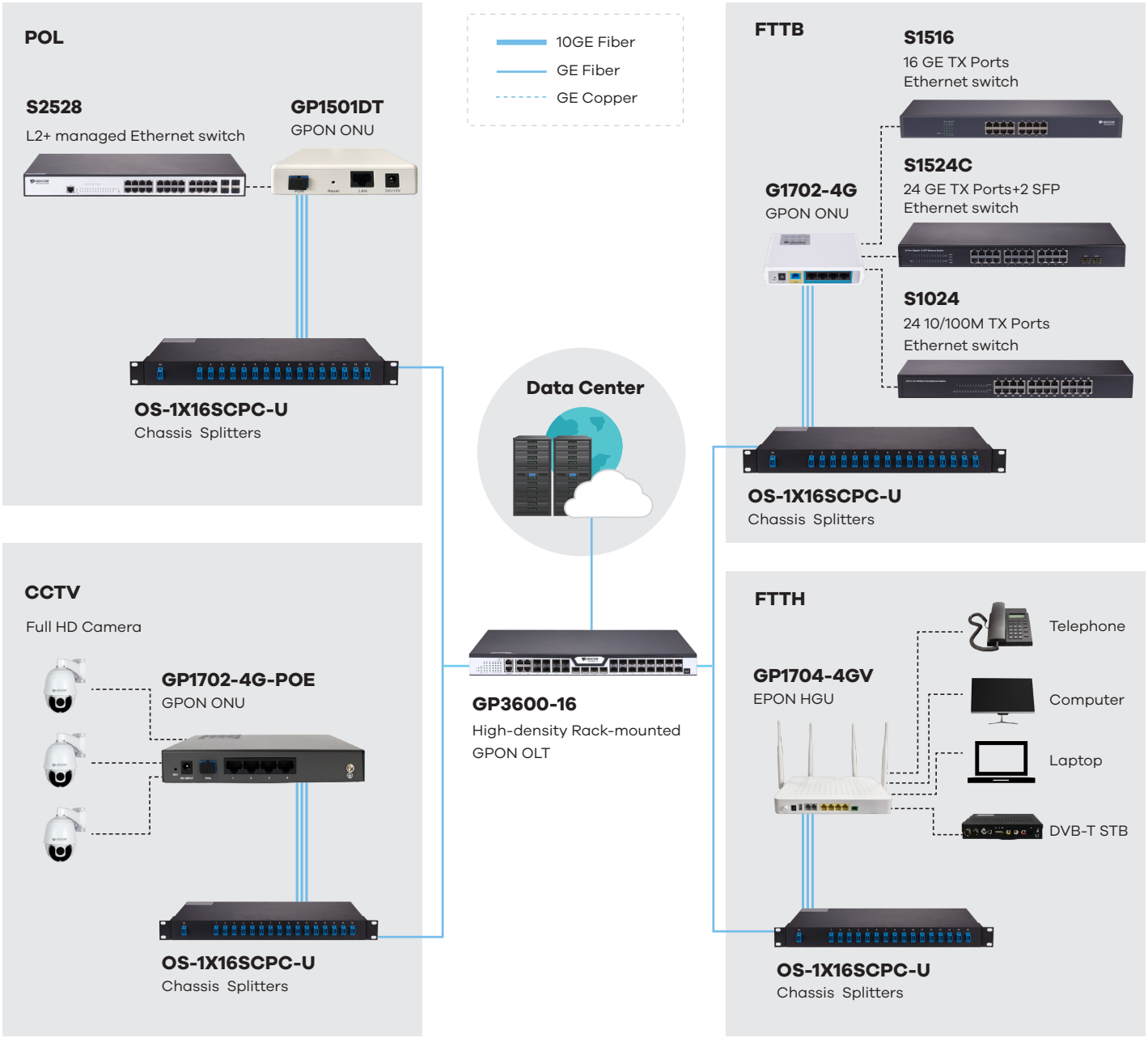
The Splitting ratio ups to 1:128

Model Lists

GP1501DT GPON ONT

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

Application Diagram



System Performance

Item	GP1501DT		
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		Input: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℃		Humidity 10%~85% (noncondensing)
Storage	Temperature -40℃ ~85℃		Humidity 5%~95% (non-condensing)
Accessories			
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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