BDCOM

GP1702-1G1VW

XPON In-wall
Voice ONT

Product Overview

BDCOM GP1702-1G1VW is a new generation smart ONT for integrated multi-service broadband access networks.

BDCOM GP1702-1G1VW is compatible with EPON and GPON networks: complied with the international standard ITU-T G.984/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. Standing out with great interoperability and operability, BDCOM GP1702-1G series can Interconnect well with OLTs of mainstream manufacturers in the industry.

Product Characteristics

Excellent Access Capacity

GPON: supports the PON transmission rate of downlink 2.5Gbps/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.
EPON: supports the PON transmission rate of downlink 1.25Gbps/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:64 splitting ratio. The covering radius of the network can reach to 20km.

Secure Service Carrying Ability

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

Complete Interaction Capacity

BDCOM GP1702-1G1VW is complied with the international standard ITU-T G.984/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. With great interoperability and operability, BDCOM GP1702-1G1VW can interconnect well with OLT devices of mainstream manufacturers in the industry to minimize network construction costs. Automatic network switching enables smooth transition from EPON to GPON network.

GPON and EPON auto-adaptive

Efficient bandwidth usage and Ethernet services

The Splitting ratio ups to 1:128

Product Characteristics

Advanced Energy-saving Technique

GP1702-1G1VW supports the "GreenTouch" architecture and "Smart@CHIP".

High Service Control Capability

GP1702-1G1VW supports DBA and Rate-Limit. BDCOM GP1702-1G1VW also supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps (GPON) and 1.25Gbps (EPON) bandwidth resource appropriately. In addition, the QOS function of BDCOM GP1702-1G1VW guarantees a reliable service quality and service priority. bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.
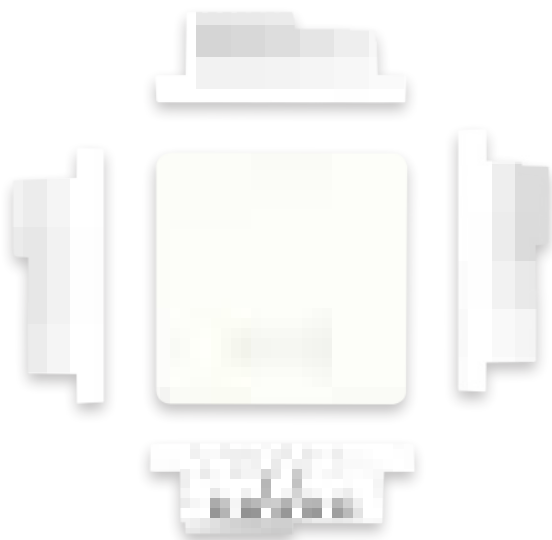
Rich OMCI&OAM Function

BDCOM GP1702-1G1VW supports the standard OMCI defined by ITU-T, standard OAM and extended OAM defined by telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMCI and OAM defined by BDCOM.
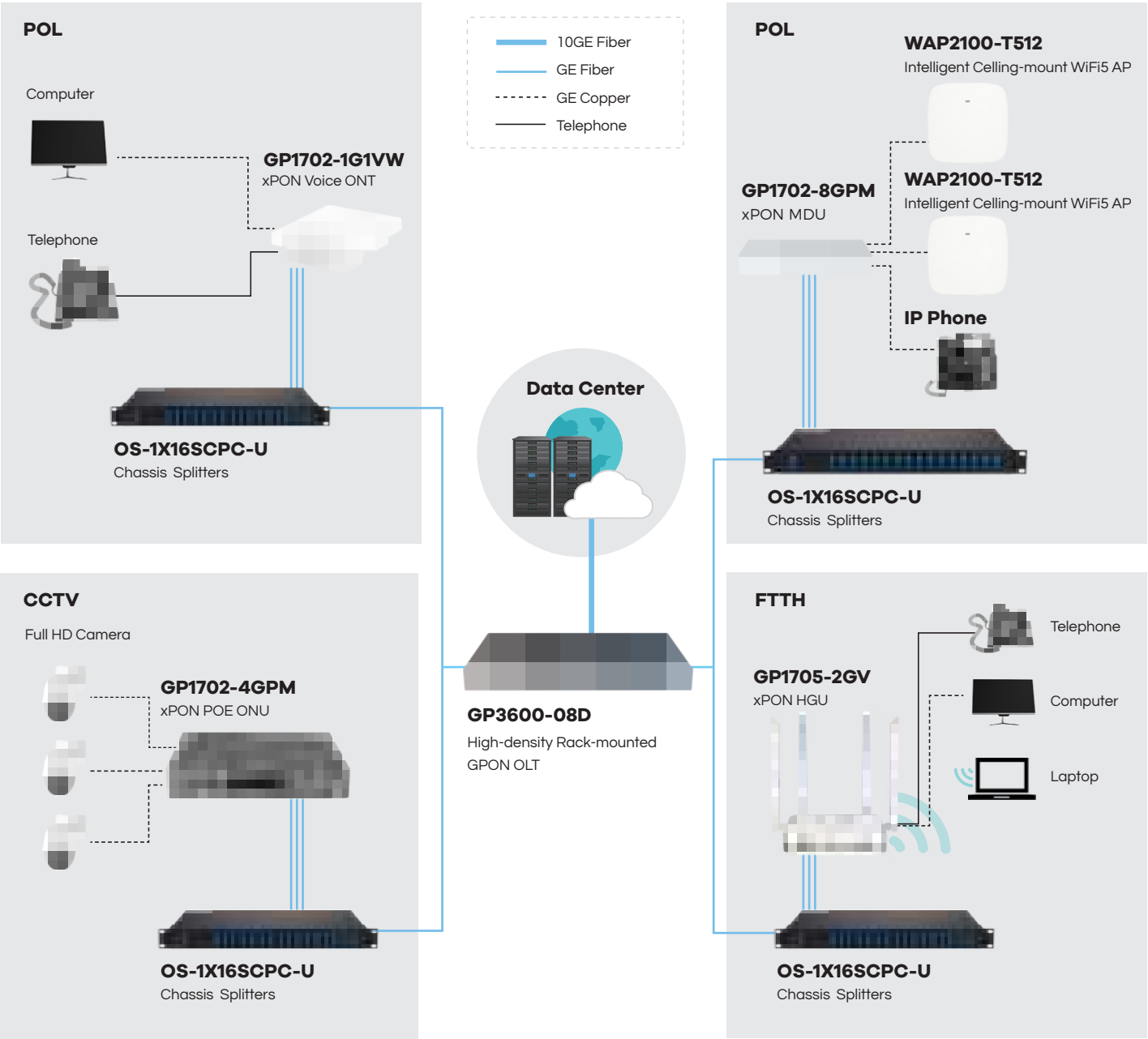
Model List

GP1702-1G1VW

xPON Vioce ONT

· 1-Port SC/UPC
· 1-Port Gigabit RJ45
· 1-Port POTS

Application Diagram

POL

Computer

GP1702-1G1VW
xPON Voice ONT

Telephone

OS-1X16SCPC-U
Chassis Splitters

Legend
- 10GE Fiber
- GE Fiber
- GE Copper
- Telephone

POL

WAP2100-T512
Intelligent Celling-mount WiFi5 AP

GP1702-8GPM
xPON MDU

WAP2100-T512
Intelligent Celling-mount WiFi5 AP

IP Phone

OS-1X16SCPC-U
Chassis Splitters

Data Center

GP3600-08D
High-density Rack-mounted
GPON OLT

CCTV

Full HD Camera

GP1702-4GPM
xPON POE ONU

OS-1X16SCPC-U
Chassis Splitters

FTTH

GP1705-2GV
xPON HGU

Telephone

Computer

Laptop

OS-1X16SCPC-U
Chassis Splitters

System Performance

Item	
Service interface	4
PON ports	1-Port SC/UPC
UNI ports	1-Port Gigabit RJ45
Voice	1-Port RJ11(POTS)
Optical power — TX power	0.5~5dBm
Optical power — RX sensitive	-28dBm
Power supply	
AC adaptor — Input:	100-240V AC
AC adaptor — Output:	12V/1A
Max. consumption (W)	10
Appearance	
Chassis — Dimensions (WxDxH mm)	85 x 85 x 32
Chassis — Weight (Kg) (empty)	0.1
Package — Dimensions (WxDxH mm)	118 x104 x 62
Package — Weight (Kg)	0.2
Environmental specifications	
Operating — Temperature	0~45°C
Operating — Humidity	10%~85%(non-condensing)
Storage — Temperature	-40°C~85°C
Storage — Humidity	5%~95%(non-condensing)
Accessories	
Parts	Power adaptor

Technical Specifications

Standards

- ITU-T G.984/G.988,
- IEEE802.3ah
- GBT33845-2017, YD/T 1475-2006
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- ITU-T Y.1291

VLAN

- 4K VLAN
- Port based VLAN
- IEEE 802.1Q VLAN
- Tag/Transparent/Aggregation /Trunk/Translation mode VLAN
- CTC2.0 defined VLAN

XPON 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, OAM,etc.
- Local or server syslog

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

Reliability

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

Ordering Information

Model	Description
GP1702-1G1VW	xPON In-wall Voice ONU, 1-Port GPON/EPON (SC/UPC), 1-Port Gigabit RJ45 + 1-Port RJ11(POTS), plastic casing, DC12V/1A power adaptor

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