

# GP1705-2GV

xPON Voice Home Gateway Unit(HGU)



## **Overview**

BDCOM GP1705-2GV is a smart HGU with integrated wireless and VoIP and CATV function.

BDCOM GP1705-2GV is oriented for the integrated multi-service network in telecom operator network.

BDCOM GP1705-2GV 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/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC.

## **Highlights**

## **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 GP1705-2GV 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 GP1705-2GV 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.







## **Highlights**

## Advanced Energy-saving Technique

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

## High Service Control Capability

BDCOM GP1705-2GV supports DBA and Rate-Limit. BDCOM GP1705-2GV 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 GP1705-2GV 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 GP1705-2GV 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 Lists**

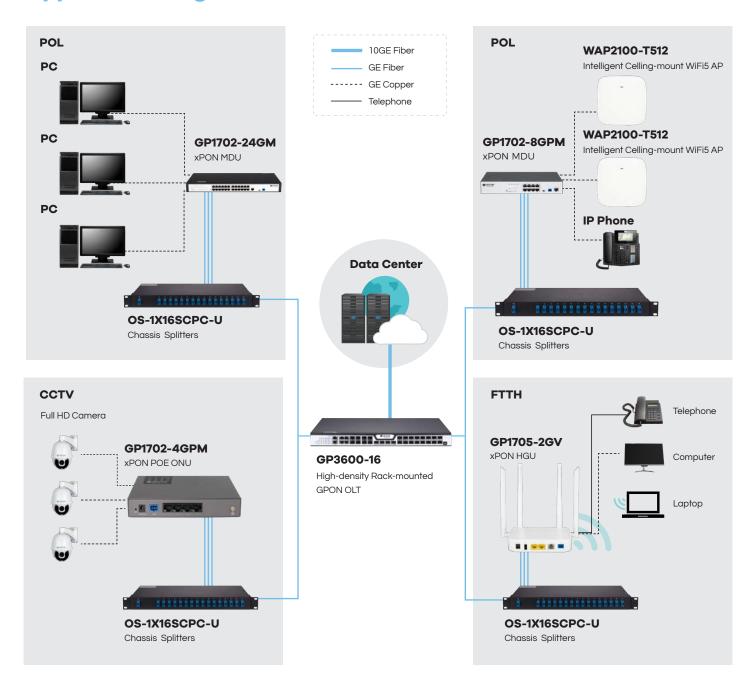
#### **GP1705-2GV**

xPON Multi-service Broadband Access Home Gateway Unit(HGU)



- · 1-Port SC/UPC
- · 2-Port Gigabit RJ45
- · 1-Port USB2.0
- · 1-Port POTS
- · 1200Mbps wireless

## **Application Diagram**



# **System Performance**

Item		GP1705-2GV	
Service	interface		
PON ports		1-Port SC/UPC	
UNI ports		2-Port Gigabit RJ45	
WIFI		1200Mbps	
Voice		1	
USB		1	
Optical power	TX power	0.5~5dBm	
	RX sensitive	<-28dBm	
Power	supply		
AC adaptor		Input: 100-240V AC Output: 12V/1.5A	
Max. consumption (W)		15	
Appear	rance		
Chassis	Dimensions (WxDxH mm)	140 x 105 x 30	
	Weight(Kg)(empty)	0.3	
Environmental Specifications			
Operating	Temperature	-0℃ -45℃	
	Humidity	10%~85% (non-condensing )	
Storage	Temperature	-40 °C -85 °C	
	Humidity	5%-95% (non-condensing )	
System	n capacity		
Accessories		Power adaptor	

## **Technical Specifications**

#### **Standards**

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

#### **IP Service**

- · DHCP server/client
- · Routing/Bridging/Hybrid mode
- · DNS, DDNS
- · PPPOE
- · NAT/NAPT

#### **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, TR069 and TEL NET
- · Software upgrade through TFTP and WEB, OMCI, etc.
- · Local or server syslog

## **Voice Service**

- · SIP, T.38 FAX
- · Three-way calling
- · Call waiting
- · Hot-line calling

## **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

## **Wireless**

- · 802.11b/g/n/ac
- · 2x2 MIMO
- · Multi SSID
- · SSID encryption
- Wireless channel (configurable)

## **Ordering Information**

Model	Description
GP1705-2GV	xPON Voice WiFi ONU, 1-Port GPON/EPON (SC/UPC), 2-Port Gigabit RJ45 + 1-Port RJ11(POTS), dual band 1200M WiFi, 4 external antennas, plastic casing, DC12V/1.5A power adaptor



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