BDCOM

BDCOM
Professional Network Technology

BDCOM GP1704-1G
GPON Commercial Gigabit HGU

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Product Overview

BDCOM GP1704-1G is a smart GPON HGU with wireless function for integrated multi-service networks. It is complied with the international standard ITU-T G.984/988 and PRC Community Industry Standard *GPON ONU in Access Technology Requirements* and China Telecom GPON Technical Requirement CTC2.0.

BDCOM GP1704-1G

Product Characteristics

- **Excellent Access Capacity**

  It 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 ONU, BDCOM has developed techniques including VLAN, STP, port isolation, ACL, QoS 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 share 2.5Gbps bandwidth resource appropriately. It also supports QOS function, which guarantees a reliable service quality and service priority.

- **Rich OMCI Functions**

It 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**

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

■ **Advanced Energy-saving Technique**

It supports the "GreenTouch" architecture and "Smart@CHIP".

Technical Parameters

Attributes	BDCOM GP1704-1G
User trial interface	1 GE
	WiFi interface (802.11b/g/n, internal dual antenna)
PON interface	downlink 2.5Gbps / uplink 1.25Gbps
	The network covering radius: 20km
	Type of the optical interface: SC/UPC
	Hi-sensible optical receiver: ≤-28dBm
	Radiation power: 0.5 ~5dBm
	Security: ONU authentication mechanism
Standards	ITU-T G.984/G.988
	PRC Community Industry Standard GPON ONU in Access Technology Requirements
	IEEE 802.1Q, VLAN
	ITU-T Y.1291
Data forwarding	Support routing mode, bridge mode, routing+bridge mode
DNS	DNS Relay
DHCP	DHCP Server

VLAN	64 VLAN (1~4094)
	port-based VLAN
	IEEE 802.1Q VLAN
Multicast	IGMP-Snooping
	MLD-Snooping
WiFi	802.11b/g/n
	MIMO 2X2, max rate up to 300Mbps
QoS	Backpressure flow control (half duplex)
	IEEE 802.3x flow control (full duplex)
	IEEE 802.1p, CoS
	Four priority queues on each port
	WR, SP and FIFO
	Rate limit
Reliability	Loop detect
	Dying-Gasp
Security	Limitation to the number of MAC addresses on the port
	Port protection
	Port storm control
Management	CLI, Web, TELNET and TR069
	Software upgrade through TFTP, WEB, OMCI
	Local syslog or server syslog
Dimensions mm (W×D×H)	87.1 x 29.2 x 117
Heat dissipation	Supports long-time use (For instance, 24 hours); The device running hot will not affect its performance or cause it break down.
Environment requirements	Operating environment: 0 ℃ ～ 45 ℃; 10% ～ 85% non-condensing

	Storage environment: -40 ℃ ～ 80 ℃ ; 5% ～ 95% non-condensing
	Power supply: DC12V/0.5A (external adaptor power supply)
	Power consumption: ＜5W

Ordering Information

Model	Description
BDCOM GP1704-1G	FTTH/O ONU, 1 GPON interface (SC/UPC),1GE, built-in Wi-Fi, plastic hull, DC12V/0.5A, external adaptor

For More Information

For more information about the **BDCOM GP1704-1G Series**, please contact your local BDCOM account representative.

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