



BDCOM GP1501-1G Series Commercial Gigabit ONUs



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Product Overview

BDCOM GP1501-1G is a new generation smart ONU for integrated multi-service networks. It is complied with the international standard ITU-T G.9844/988 and PRC Community Industry Standard *GEPON ONU in Access Technology Requirements* and China Telecom EPON Technical Requirement CTC2.0.



BDCOM GP1501-1G Series

Product Characteristics

Excellent Access Capacity

It supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with BDCOM OLTs, 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 *GEPON ONU in Access Technology Requirements* and China Telecom EPON Technical Requirement CTC2.0.

Advanced Energy-saving Technique

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

Technical Parameters

Attributes	BDCOM GP1501-1G
User trial interface	1 fixed 10/100M/1000M BASE-T auto-adaptation RJ45
	interface
PON interface	downlink 2.5Gbps / uplink 1.25Gbps
	The network covering radius: 20km
	Type of the optical interface: SC/UPC
	Hi-sensible optical receiver: -27dBm
	Radiation power: 0.5 ~5dBm
	Security: ONU authentication mechanism
Standards	ITU-T G.984/G.988
	PRC Community Industry Standard GEPON ONU in Access
	Technology Requirements
	IEEE 802.1D, Spanning Tree
	IEEE 802.1Q, VLAN
	IEEE 802.1w, RSTP
	ITU-T Y.1291
VLAN	Port based VLAN
	IEEE 802.1Q VLAN
	CTC2.0 defined VLAN
Multicast	IGMP-Snooping
	CTC defined dynamic multicast
	MLD-Snooping



Backpressure flow control (half duplex)IEEE 802.3x flow control (full duplex)Head Of Line (HOL) mechanismHead Of Line (HOL) mechanismIEEE 802.1p, CoSFour priority queues on each portWR, SP and FIFORate limitReliabilityLoop detectDying-GaspPort protectionPort protectionPort storm controlPort storm controlPort storm controlDimensions mm (W×D×H)Iotal syslog or server syslogInstallation: plug and playSupports long-time use (For instance, 24 hours); The device running hot will not affect its performance or protection		
QoSHead Of Line (HOL) mechanism IEEE 802.1p, CoS Four priority queues on each port WR, SP and FIFO Rate limitReliabilityLoop detect Dying-GaspSecurityLimitation to the number of MAC addresses on the port Port protection Port storm controlManagementCLI, Web, SNMP and TELNET Software upgrade through TFTP and WEB Local syslog or server syslogDimensions mm (WxDxH)130 x 100 x 28 Installation: plug and playSupports long-time use (For instance, 24 hours);		Backpressure flow control (half duplex)
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Installation: plug and play Supports long-time use (For instance, 24 hours);	Dimensions mm (W×D×H)	130 x 100 x 28
		Installation: plug and play
Heat dissipation The device running hot will not affect its performance of	Heat dissipation	Supports long-time use (For instance, 24 hours);
		The device running hot will not affect its performance or
cause it break down.		cause it break down.
Operating environment: 0 °C \sim 45 °C ; 10% \sim 85%	Environment requirements	Operating environment: 0 °C \sim 45 °C ; 10% \sim 85%
non-condensation		
Environment requirements		
Storage environment: -40 °C \sim 80 °C ; 5% \sim 95%		Storage environment: -40 °C \sim 80 °C ; 5% \sim 95%
non-condensation		non-condensation
Power supply DC12V/0.5A (external adaptor power supply)	Power supply	DC12V/0.5A (external adaptor power supply)
Power consumption <6W	Power consumption	<6W



Ordering Information

Model	Description
BDCOM GP1501-1G	FTTH/O ONU, 1 GPON interface (SC/UPC), 1 GE, plastic hull,
	DC12/0.5A, external adaptor (RTL solution)

For More Information

For more information about the **BDCOM GP1501-1G ONU Series**, please contact your local BDCOM account representative.

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