



# BDCOM

BDCOM GP1702-4G Series  
Commercial ONU

## BDCOM GP1702-4G Series Commercial ONU

### Product Overview

BDCOM GP1702-4G is a new generation smart ONU with 4 10/100/1000M Base-T Ethernet ports for integrated multi-service networks. It is complied with the international standard ITU-T G.9844/988 and PRC Communication Industry Standard *GPON ONU in Access Technology Requirements* and China Telecom GPON Technical Requirement CTC2.0.



**BDCOM GP1702-4G 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 *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 GP1702-4G
User trial interface	4 fixed 10/100/1000M Base-T auto-adaptation RJ45 interfaces
PON interface	<p>downlink 2.5Gbps / uplink 1.25Gbps</p> <p>The network covering radius: 20km</p> <p>Type of the optical interface: SC/UPC</p> <p>Hi-sensible optical receiver: <math>\leq -27\text{dBm}</math></p> <p>Radiation power: 0.5 ~5dBm</p> <p>Security: ONU authentication mechanism</p>
Standards	<p>ITU-T G.984/G.988</p> <p>PRC Community Industry Standard GPON ONU in Access Technology Requirements</p> <p>IEEE 802.1D, Spanning Tree</p> <p>IEEE 802.1Q, VLAN</p> <p>IEEE 802.1w, RSTP</p> <p>ITU-T Y.1291</p>
VLAN	<p>Supports 64 VLANs (1~4094)</p> <p>Port based VLAN</p> <p>IEEE 802.1Q VLAN</p> <p>CTC2.0 defined VLAN</p>
Multicast	<p>IGMP-Snooping</p> <p>CTC defined dynamic multicast</p>

	MLD-Snooping
QoS	<p>Backpressure flow control (half duplex)</p> <p>IEEE 802.3x flow control (full duplex)</p> <p>Head Of Line (HOL) mechanism</p> <p>IEEE 802.1p, CoS</p> <p>four priority queues on each port</p> <p>WR, SP and FIFO</p> <p>Rate limit</p>
Reliability	<p>Loop detect</p> <p>Dying-Gasp</p>
Security	<p>Limitation to the number of MAC addresses on the port</p> <p>Port protection</p> <p>Port storm control</p>
Management	<p>CLI, Web, SNMP and TELNET</p> <p>Software upgrade through TFTP and WEB</p> <p>Local syslog or server syslog</p>
Dimensions mm (W×D×H)	130 x 100 x 28
Heat dissipation	<p>Supports long-time use (For instance, 24 hours);</p> <p>The device running hot will not affect its performance or cause it break down.</p>
Environment requirements	<p>Operating environment: 0 °C ~ 45 °C ; 10% ~ 85% non-condensing</p> <p>Storage environment: -40 °C ~ 80 °C ; 5% ~ 95% non-condensing</p>
Power supply	DC12V/0.5A (external adaptor power supply)
Power consumption	<6W

## Ordering Information

Model	Description
BDCOM GP1702-4G	FTTH/O ONU, 1 GPON interface (SC/UPC), 4 10/100/1000M Base-T Ethernet ports, plastic hull, DC12/0.5A, external adaptor

### For More Information

For more information about the [BDCOM GP1702-4G ONU Series](#), please contact your local BDCOM account representative.

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