Product Overview

ONU BDCOM is a new generation smart ONU with “1 gigabit port + 3 100M 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.

ONU BDCOM 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	ONU BDCOM
User trial interface	1 fixed 10/100/1000M + 3 fixed 10/100M Base-T auto-adaptation RJ45 interfaces
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 GPON ONU in Access Technology Requirements IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP ITU-T Y.1291
VLAN	Supports 64 VLANs (1~4094) Port based VLAN IEEE 802.1Q VLAN CTC2.0 defined VLAN
Multicast	IGMP-Snooping CTC defined dynamic multicast MLD-Snooping
QoS	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) Head Of Line (HOL) mechanism 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, SNMP and TELNET Software upgrade through TFTP and WEB Local syslog or server syslog
Dimensions mm (W×D×H)	130 x 100 x 28
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	＜6W

Ordering Information

Model	Description
ONU BDCOM	FTTH/O ONU, 1 GPON interface (SC/UPC), 1 GE, 3 FE, plastic hull, DC12/0.5A, external adaptor