D-Link®
Building Networks for People

Product Highlights

High-speed Gigabit for high-bandwidth services

A total solution that helps you connect to fiber services and enabling you to enjoy high-bandwidth services such as 4K/8K HD video streaming and cloud-based data storage.

Bridge mode enables seamless triple-play services

DPN-101G enables users to enjoy seamless high-quality triple-play services such as voice, data and video with high Internet speed.

DPN-101G
GPON ONT Bridge

Features

Connectivity
- One SC/APC PON Port
- One 10/100/1000 Gigabit LAN Port

Configuration and Management
- Remote management with advanced PLOAM functions
- Management through G.984.4 OMCI (ONT Management and Control Interface)
- Shell & Logger for advanced user configuration/ diagnostic usage
- Telnet session for remote management

Advanced Energy-saving
- Supports Smart@CHIP and GreenTouch architecture

The DPN-101G GPON ONT Bridge is a smart ONT with a Gigabit port designed for multi-service networks. It comes with a plug-and-play design, terminating the GPON link and deliver Ethernet broadband service to users. Suitable for open network architecture in residential areas that utilizes various bandwidth-consuming applications.
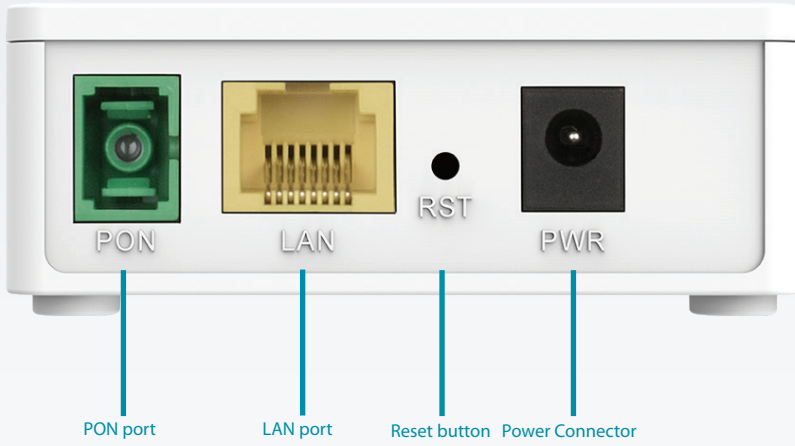
Fast and Reliable Home Transmission

The D-Link DPN-101G GPON ONT Bridge can reach a PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. When GPON ONT Bridge is connected with an OLT, it can reach up to a 1:128 splitting ratio with a network radius that can reach up to 20km.
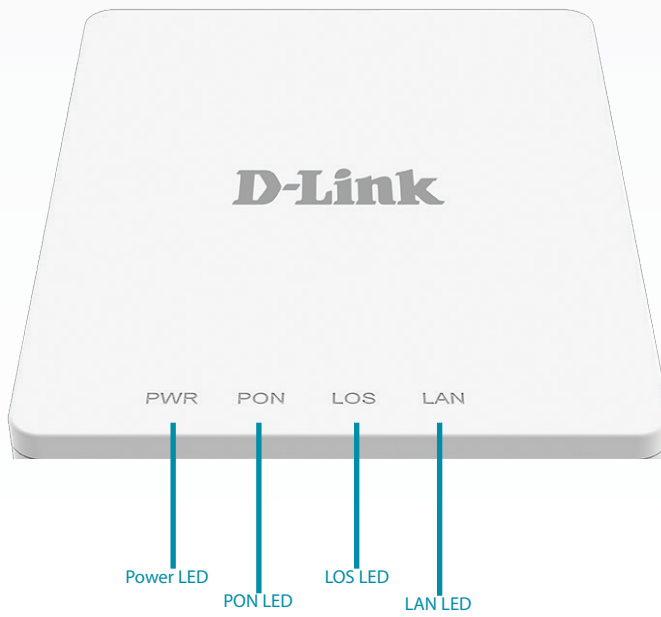
OMCI (ONT Management and Control Interface)

The D-Link DPN-101G GPON ONT Bridge lets you manage your device through the standard OMCI defined by ITU-T, this includes configuration, alarm, performance monitoring, fault isolation and security management, and private OMCI.

Back View

PON port   LAN port   Reset button   Power Connector

Top View

Power LED   PON LED   LOS LED   LAN LED

Technical Specifications

General

Device Interfaces	• One SC/APC PON Port	• One 10/100/1000 Gigabit LAN Port
PON Interface	• Downlink 2.5Gbps • Network covering radius: 20km • Hi-sensible optical receiver: ≤-28dBm • Radiation power: 0.5 ~5dBm	• Uplink 1.25Gbps • SC/APC • ONU authentication mechanism
Standards	• PPPoE • ITU-T G.984/G.988 • IEEE 802.1D, Spanning Tree	• IEEE 802.1Q, VLAN • ITU-T Y.1291 • IEEE 802.1w, RSTP
VLAN Protocols	• Port based VLAN	• IEEE 802.1Q VLAN

Functionality

EPON Encryption	• AES128 algorithm encryption MAC/Loid/Hybrid authentication	
Security	• MAC filter	
Multicast	• IGMP-Snooping	• Multicast fast-leave
QoS	• Four priority queues on each port • Port rate limit • WR, SP and FIFO queue schedule algorithms	• IEEE 802.3x flow control (full duplex) • IEEE 802.1p, CoS • SLA and DBA
Management	• Management modes including CLI, HTTP, SNMP and TELNET • Local or server syslog	• Software upgrade through TFTP, WEB and OMCI

Physical

Dimensions	• 105 x 75 x 26 mm (4.13 x 2.95 x 1.02 inches)	
Weight	• 100 grams (0.22 pounds)	
Power	• Input: 100 ~ 240 V	• Output: 12 V / 1.5 A
Temperature	• Operating: 0 to 45 °C (32 to 113 °F)	• Storage: -40 to 80 °C (-40 to 176 °F)
Humidity	• 10 % to 85 % non-condensing	
Certifications	• CE	

Order Information

Part Number	Description
DPN-101G	GPON ONT Bridge

Updated 2019/12/17

D-Link®

Building Networks for People