D-Link®
Building Networks for People

DPN-R5402
GPON ONT Wireless N Gigabit VoIP Gateway

Features

High-Speed Internet Access

• Up to 2.4 Gbps bandwidth capable of powering multi-user locations such as a hotel, dormitory, or apartment
• Optical fiber keeps the connection lightning-fast straight to the user
• Expand capacity in a big way to keep up with ever-increasing service demands

Application Support

• Voice service over 2 FXS ports
• IPTV (Internet Protocol Television)
• VOD (Video On Demand)
• VoIP (Voice over Internet Protocol)
• VPN (Virtual Private Network)
• Web browsing
• E-mail and instant messaging

Connectivity

• 802.11n standard provides Wireless N connectivity at 300 Mbps
• Four Gigabit Ethernet ports provide even faster connection over twisted-pair cables

Security

• WPA/WPA2 encryption protocol for industry-standard wireless security
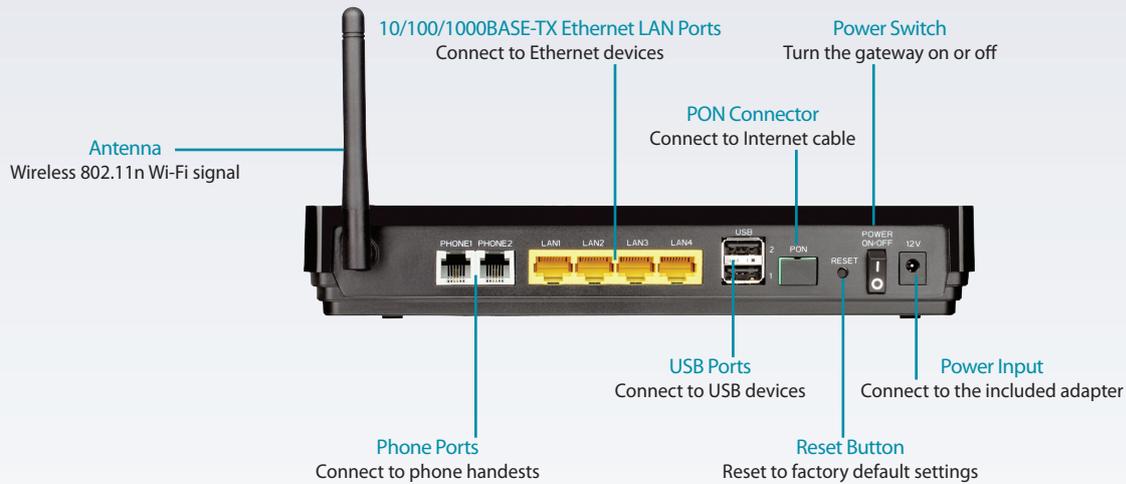• WEP encryption protocol allows legacy devices to connect

The DPN-R5402 GPON ONT Wireless N Gigabit VoIP Gateway is a GPON (Gigabit-capable Passive Optical Network) ONT (Optical Network Terminal) device that provides a Gigabit connection and voice features for indoor environments such as small offices and multi-unit buildings. GPON technology delivers up to 2.4 Gbps speeds over optical fiber wiring, and enables next-generation simultaneous voice, video, and data services including high-speed Internet access, video streaming, and instant messaging. It has a built-in 802.11n wireless interface and four LAN ports, so family members can connect to the network wirelessly, or through network cables. The DPN-R5402 is an effective, easy-to-deploy technology that can be used as a high-performance Internet solution.

Leverage Your Fiber

The DPN-R5402 GPON ONT Wireless N Gigabit VoIP Gateway provides an optical line connection to a GPON OLT on the CO side, multiple VoIP phone connections, an 802.11n wireless interface, two USB ports, and four 10/100/1000 Mbps Gigabit Ethernet connections to the end-user's LAN side. It utilizes the extraordinary bandwidth of GPON technology, the next step in the delivery of new high-speed Internet applications to home and office users. Designed for deployment inside a home or an apartment building, this ONT device provides a reliable, long-reach last-mile connection by extending the public high-bandwidth network to people living and working in remote multi-unit, multi-tenant buildings.

Secure Wired and Wireless Connections

The DPN-R5402 provides an integrated 802.11n WLAN that supports wireless speeds of up to 300 Mbps and four Gigabit Ethernet ports for connecting to non-wireless computers and other network devices via network cables. To secure your wireless connections, this gateway provides the latest WPA/WPA2 security encryption protocols to maximize security, while also allowing WEP-secured connections for maximum compatibility with legacy devices.

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DPN-R5402 GPON ONT Wireless N Gigabit VoIP Gateway

Antenna
Wireless 802.11n Wi-Fi signal

10/100/1000BASE-TX Ethernet LAN Ports
Connect to Ethernet devices

Power Switch
Turn the gateway on or off

PON Connector
Connect to Internet cable

USB Ports
Connect to USB devices

Power Input
Connect to the included adapter

Phone Ports
Connect to phone handests

Reset Button
Reset to factory default settings

Technical Specifications

Features

Configuration and Management	• Remote management with PLOAM functions • Management through G.984.4 OMCI (ONT Management and Control Interface) • Secure access via ACL (Access Control List) • Telnet session for remote management	• Provide Shell & Logger for advanced user configuration/diagnostic usage • Firmware upgrades through OMCI or CLI • Configurable QoS classes and related parameters (T-CONT, PortID, AllocID)
GPON Features	• Class B+ GPON optical transceiver • Upstream (Transmitter): 1310 nm +/ -50 nm, Max. 1.244 Gbps upstream burst data rate • Downstream (Digital Receiver): 1490 nm +/- 10 nm, Max. 2.488 Gbps downstream continuous data rate • 1 SC connector that can be connected to the fiber cable from CO site • Single Mode fiber cable • Maximum ONT Splits: 64 • Maximum physical reach: 20 km • Address management (add, delete, clear MAC address)	• IGMP v1/v2 Snooping, 16 entries, can be enabled/ disabled, Fast leaving • UNI port config. (Speed, duplex, pause flow control, disable/enable, auto mode) • Compliant with ONT dying gasp • ONT authentication • Configurable AES encryption on DS payload • Up to 64 learning MAC addresses • Full ITU-T G.984.x set ONU functionality with extended functionalities
LAN Features	• 10BASE-T IEEE 802.3 • 100BASE-TX IEEE 802.3u • 1000BASE-TX IEEE 802.3ab • IE802.3x flow control (PAUSE frame) • Auto negotiation, auto MDI/MDIX	• 522 byte Ethernet packet size (Tag Packet). • Manual speed setting for 10 M,100 M, 1000 M • Cable: UTP(Category 5e) • IEEE 802.1Q VLAN (32 VLANs, VID: 1 – 4094) • VLAN trunk, VLAN based on user port and service type
VoIP Features	• Basic outgoing and incoming call, Call Waiting, Three Party Conference, Call Transfer, Caller ID • Voice Codecs: 711 a-law, G.711 u-law, G.723.1A, G.729A, G.729B.	• Voice Transport: compliant with RTP (RFC1889) • Call Control SIP (RFC3261) • T.38 Fax relay • Echo Cancellation
Wireless Features	• 802.11n • 2.4 GHz to 2.4835 GHz	• WEP, WPA-PSK, and WPA2-PSK AES security encryption protocols
USB Features	• Storage functionality	• SAMBA

Physical

Interfaces	• GPON Port (SC Connector) • Four 10/100/1000 BASE-TX Gigabit Ethernet Ports (RJ-45 Connector) • Two VoIP FXS Ports (RJ-11 Connector) • 802.11n WLAN (AP wireless connection to computers)	• Two USB 2.0 ports • WPS button • Factory reset button • Power ON/OFF switch

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LEDs	• Power • Link (PON) • ACT (PON) • LAN (1-4) • Wi-Fi	• WAN • Phone (1-2) • VoIP • USB (1-2)
Dimensions	• 228 x 160 x 40.98 mm (8.98 x 6.30 x 1.61 inches)	
Weight	• 113.4 grams (0.25 lbs)	
Power	• Output: 12 V / 2 A	
Temperature	• Operating: 0 to 40 ℃ (32 to 104 ℉)	• Storage: -40 to 70 ℃ (-40 to 149 ℉)
Humidity	• 0 to 95 % non-condensing	
Certifications	• CE	• FCC Class B

Order Information

Part Number	Description
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