

Product Highlights

HIGH SPEED

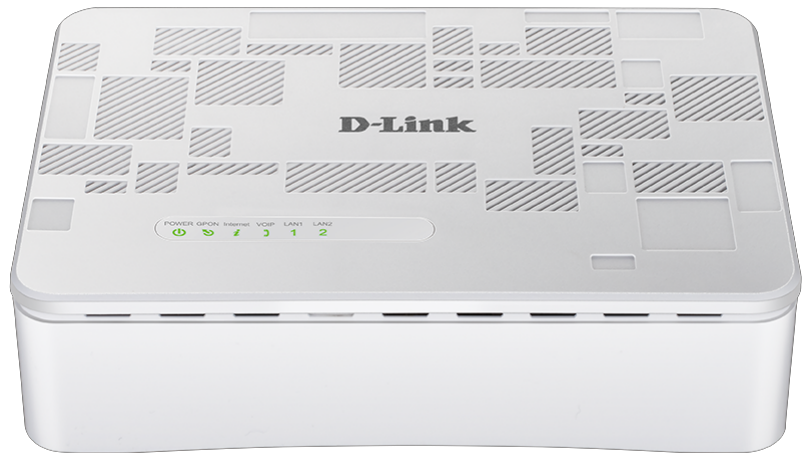
Broadband access rate
up to 2.4Gbps

SUITABLE FOR TRIPLE PLAY

Perfect solution for
simultaneous use of
HD IPTV, VoIP services,
and Internet access

REMOTE MANAGEMENT

Configuration and
FW update
independently
from customers



DPN-1021G

GPON ONT VoIP Gateway with 1 GPON Port, 1 10/100/1000Base-T Port, 1 10/100Base-TX Port, and 1 FXS Port

GPON Technology

DPN-1021G provides an optical line connection to a GPON OLT device. The key advantage of GPON technology is extraordinary bandwidth of the channel. This helps to deliver the next generation of high-speed Internet services to home and office users. DPN-1021G helps to provide a reliable, long-reaching last-mile connection by extending the high-bandwidth public network to people living and working in remote multi-unit buildings.

Triple Play Services

High-speed broadband access with the rate up to 2.4Gbps allows to provide customers with all high-demand services (such as HD IPTV, VoIP, Internet connection) simultaneously.

Voice

The device is equipped with an FXS port which allows connection of an analog phone for calls via Internet.

Ethernet WAN

Any Ethernet port of the device can be configured to connect to a private Ethernet line.

Security

The VoIP gateway DPN-1021G includes a built-in firewall. The advanced security functions minimize threats of hacker attacks, prevent unwanted intrusions to your network, and block access to unwanted websites for users of your LAN.

In addition, the gateway supports IPsec and allows to create secure VPN tunnels.

Built-in Yandex.DNS service protects against malicious and fraudulent web sites and helps to block access to adult content on children's devices.

Easy Configuration and Update

You can configure the settings of DPN-1021G via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

DPN-1021G itself checks the D-Link update server. If a new approved firmware is available, a notification will appear in the web-based interface of the device.

The built-in TR-069 client allows to perform remote configuration and diagnostics of the device independently from the customer.

Hardware	
Processor	<ul style="list-style-type: none"> RTL9602
RAM	<ul style="list-style-type: none"> 128MB, DDR3
Flash	<ul style="list-style-type: none"> 128MB, NAND
Interfaces	<ul style="list-style-type: none"> GPON port (SC/APC connector) 10/100/1000BASE-T LAN port 10/100BASE-TX LAN port RJ-11 FXS port
LEDs	<ul style="list-style-type: none"> POWER GPON Internet VoIP 2 LAN LEDs
Buttons	<ul style="list-style-type: none"> ON/OFF button to power on/power off RESET button to restore factory default settings
Power connector	<ul style="list-style-type: none"> Power input connector (DC)

PON	
GPON features	<ul style="list-style-type: none"> Class B+ GPON optical transceiver Upstream (transmitter): 1310nm ± 50nm, 1.244Gbps upstream burst data rate Downstream (digital receiver): 1490nm ± 10nm, 2.488Gbit/s downstream continuous data rate Single mode fiber cable AES encryption Support of IGMP v1/v2 Snooping, 16 entries, enable/disable, Fast leaving MAC learning UNI port configuration (rate, duplex mode, flow control, disable/enable, auto mode) Maximum frame length to 1522 bytes Compliance to ONT dying gasp ONT authentication

Phone	
General SIP features	<ul style="list-style-type: none"> Invite with Challenge Register by IP address or domain name of SIP server Backup proxy support Support of DHCP option 120 RFC3986 SIP URI format support Outbound proxy support STUN client NAT keep-alive Call types: voice/modem/fax User programmable Dial Plan Manual peer table (P2P) E.164 Numbering, ENUM support
Call features	<ul style="list-style-type: none"> Direct IP-to-IP call without SIP proxy Call hold/retrieve Call awaiting Forwarding (unconditional, busy, no answer) Do Not Disturb Blocking hidden number calls Speed dialing Phone book Hotline Vertical service codes Filtering by IP address (white/black list) Alarm clock

Phone	
Voice features	<ul style="list-style-type: none"> · Codecs: G.711 a/μ-law, G.729A, G.726, G.722, G.723.1 · DTMF detection and generation · In-band DTMF, out-of-band DTMF (RFC2833, SIP-INFO) · Comfort Noise Generation (CNG) · Voice Activity Detection (VAD) · Dynamic Jitter Buffer · Call progress tone generation (FXS) · DTMF/PULSE dial support · Caller ID detection and generation · T.30 FAX bypass to G.711, T.38 Real Time FAX Relay · Adjustable Flash Time · Volume control (speaker/microphone)
Software	
WAN connection types	<ul style="list-style-type: none"> · Static IPv4 / Dynamic IPv4 · Static IPv6 / Dynamic IPv6 · PPPoE · PPTP/L2TP · PPPoE IPv6 · PPPoE Dual Stack
Network functions	<ul style="list-style-type: none"> · DHCP server/relay · Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation · DNS relay · Dynamic DNS · Static IP routing · Static IPv6 routing · IGMP Proxy · RIP · Support of UPnP IGD · Support of VLAN · Support of MVR · WAN ping respond · Support of SIP ALG · Support of RTSP · Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port
Firewall functions	<ul style="list-style-type: none"> · Network Address Translation (NAT) · Stateful Packet Inspection (SPI) · IP filter · IPv6 filter · MAC filter · URL filter · DMZ · Prevention of ARP and DDoS attacks · Virtual servers · Built-in Yandex.DNS web content filtering service
VPN	<ul style="list-style-type: none"> · IPsec/PPTP/L2TP/PPPoE pass-through · IPsec tunnels
Management	<ul style="list-style-type: none"> · Local and remote access to settings through TELNET/WEB (HTTP/HTTPS) · Bilingual web-based interface for configuration and management (Russian/English) · Notification on connection problems and auto redirect to settings · Firmware update via web-based interface · Automatic notification on new firmware version · Saving/restoring configuration to/from file · Support of remote logging · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client

Physical Parameters	
Dimensions (L x W x H)	· 160 x 115 x 43 mm (6.3 x 4.5 x 1.7 in)
Weight	· 200 g (0.44 lb)

Operating Environment	
Power	· Output: 12V DC, 1A
Temperature	· Operating: from 0 to 40 °C · Storage: from -40 to 70 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

Delivery Package	
· GPON ONT VoIP gateway DPN-1021G · Power adapter DC 12V/1A · "Quick Installation Guide" (brochure)	