

Product Highlights

HIGH POWER AND SPEED

New dual core (1GHz),
Gigabit Ethernet ports,
total wireless connection rate
up to 1200Mbps²

FLEXIBLE MOBILE BROADBAND

3G/4G connectivity for
broadband mobile connection

IPV6 SUPPORT

All needed functions
for up-to-date networking

SECURITY

Multiple firewall functions,
several security standards
for wireless connection



DWR-980

Wireless AC1200 4G LTE Router with VDSL2 Support, Gigabit Ethernet Ports, and 2 FXS Ports

Built-in LTE Modem

The router is equipped with a built-in LTE modem which provides 3G/4G mobile connection with fast downlink speeds of up to 150Mbps and uplink speeds of up to 50Mbps.¹

DSL Port

The router is equipped with a DSL port to connect to a high-speed VDSL line.

USB Port

The router is equipped with a USB port for connecting a USB storage device, which will be used as a network drive, or a printer.

Wireless Interface

Using the DWR-980 device, you are able to quickly create a high-speed wireless network at home or in your office, which lets computers and mobile devices access the Internet virtually anywhere (within the operational range of your wireless network). Simultaneous activity of 2.4GHz band and 5GHz band allows performing a wide range of tasks. The router can operate as a base station for connecting wireless devices of the standards 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac (at the wireless connection rate up to 1167Mbps²).

Secure Wireless Connection

The router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2), MAC address filtering, WPS, WMM.

In addition, the device is equipped with a button for switching the Wi-Fi network off/on. If needed, for example, when you leave home, you can easily switch the router's WLAN by pressing the button, and devices connected to the LAN ports of the router will stay online.

Advanced Capabilities of Wireless Network

Support of guest Wi-Fi network allows you to create a separate wireless network with individual security settings and maximum rate limitation. Devices connected to the guest network will be able to access the Internet, but will be isolated from the devices and resources of the router's LAN.

¹ Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.

² Up to 300Mbps for 2.4GHz and up to 867Mbps for 5GHz.

Voice

The device is equipped with two FXS ports which allow connection of analog phones for calls via Internet.

Security

The wireless router DWR-980 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 router 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 the wireless router DWR-980 via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

The fast and easy configuration wizard allows you to specify all needed parameters in several simple steps.

Also DWR-980 supports configuration and management via mobile application for Android and iPhone smartphones.

You can simply update the firmware: the router itself finds approved firmware on D-Link update server and notifies when ready to install it.

Hardware	
Processor	<ul style="list-style-type: none"> RTL8685PB (1GHz)
RAM	<ul style="list-style-type: none"> 128MB, DDR2, built in processor
Flash	<ul style="list-style-type: none"> 128 MB, Serial NAND
Built-in modem	<ul style="list-style-type: none"> BroadMobi BM806U-E1
Interfaces	<ul style="list-style-type: none"> Slot for SIM card (mini-SIM) 10/100/1000BASE-T WAN port 4 10/100/1000BASE-T LAN ports 1 RJ-11 DSL port 2 RJ-11 FXS ports USB 2.0 port
LEDs	<ul style="list-style-type: none"> POWER INTERNET WAN LAN 5GHz 2.4GHz VOICE DSL SMS 3G/LTE SIGNAL STRENGTH
Buttons	<ul style="list-style-type: none"> POWER switch to power on/power off RESET button to restore factory default settings WPS button to set up wireless connection WIFI ON/OFF button to enable/disable wireless network
Antenna	<ul style="list-style-type: none"> Two detachable LTE/3G antennas (3dBi gain) Two internal Wi-Fi antennas for 2.4GHz band (4dBi gain) Two internal Wi-Fi antennas for 5GHz band (4dBi gain)
MIMO	<ul style="list-style-type: none"> 2 x 2
Power connector	<ul style="list-style-type: none"> Power input connector (DC)

Software	
WAN connection types	<ul style="list-style-type: none"> LTE PPPoE / IPv6 PPPoE / PPPoE Dual Stack / PPPoA Static IP / Dynamic IP / IPoA Static IPv6 / Dynamic IPv6 PPPoE + Static IP (PPPoE Dual Access) PPPoE + Dynamic IP (PPPoE Dual Access) PPTP/L2TP + Static IP PPTP/L2TP + Dynamic IP Bridge
Network functions	<ul style="list-style-type: none"> Support of IEEE 802.1X for Internet connection 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 WAN ping respond Support of SIP ALG Support of RTSP WAN failover LAN/WAN conversion

Software	
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
QoS	<ul style="list-style-type: none"> · Interface grouping · VLAN priority (802.1p)
USB interface functions	<ul style="list-style-type: none"> · USB storage · File browser · Print server · Access to storage via accounts · Built-in Samba/FTP/DLNA server · Built-in Transmission torrent client; uploading/downloading files from/to USB storage
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) · Support of D-Link Assistant application for Android and iPhone smartphones · 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 logging to remote host/connected USB storage · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client

LTE Module Parameters	
LTE connection rate³	<ul style="list-style-type: none"> · Downlink: up to 150Mbps · Uplink: up to 50Mbps
Supported frequencies⁴	<ul style="list-style-type: none"> · Power Class 3 · LTE B1/2/3/5/7/8/20/38/40 · UMTS B1/2/3/5/8 (2100/1900/1800/850/900MHz) · GSM/GPRS 850/900/1800/1900MHz
Functions	<ul style="list-style-type: none"> · Auto connection to available type of supported network (4G/3G/2G) · Auto configuration of connection upon plugging in SIM card · Enabling/disabling PIN code check, changing PIN code · Sending/receiving/reading/removing SMS messages · Support of USSD requests (<i>For DWR-980 with the built-in modem FW version M1.4.4_E1.0.3_A1.1.8. See the data on the modem FW version in the web-based interface of the router, on the "LTE Modem" page.</i>)

³ Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.

⁴ Supported frequency bands are dependent on regional variants.

DSL Parameters	
VDSL/ADSL Standards	<ul style="list-style-type: none"> • VDSL2: ITU G.993.2, support of 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, 35b • ADSL: Multi-mode, ANSI T1.413 Issue 2, ITU-T G.992.1 (G.dmt) Annex A, ITU-T G.992.2 (G.lite) Annex A, ITU-T G.994.1 (G.hs) • ADSL2: ITU-T G.992.3 (G.dmt.bis) Annex A/L/M, ITU-T G.992.4 (G.lite.bis) Annex A • ADSL2+: ITU-T G.992.5 Annex A/L/M
ATM/PPP Protocols	<ul style="list-style-type: none"> • Bridged and routed Ethernet encapsulation • VC-based or LLC-based multiplexing • ATM Forum UNI3.1/4.0 PVC (up to 8 PVCs) • ATM Adaptation Layer Type 5 (AAL5) • ITU-T I.610 OAM F4/F5 loopback • ATM QoS • PPP over ATM (RFC 2364) • PPP over Ethernet (PPPoE) • Keep-alive for PPP connections

Wireless Module Parameters	
Standards	<ul style="list-style-type: none"> • IEEE 802.11a/n/ac • IEEE 802.11b/g/n
Frequency range	<ul style="list-style-type: none"> • 2400 ~ 2483.5MHz • 5150 ~ 5250MHz • 5725 ~ 5850MHz
Wireless connection security	<ul style="list-style-type: none"> • WEP • WPA/WPA2 (Personal/Enterprise) • MAC filter • WPS (PBC/PIN)
Advanced functions	<ul style="list-style-type: none"> • WMM (Wi-Fi QoS) • Information on connected Wi-Fi clients • Advanced settings • Guest Wi-Fi / support of MBSSID • Limitation of wireless network rate • Periodic scan of channels, automatic switch to least loaded channel • Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)
Wireless connection rate	<ul style="list-style-type: none"> • IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps • IEEE 802.11b: 1, 2, 5.5, and 11Mbps • IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps • IEEE 802.11n (2.4GHz/5GHz): from 6.5 to 300Mbps (from MCS0 to MCS15) • IEEE 802.11ac (5GHz): from 6.5 to 867Mbps (from MCS0 to MSC9)
Transmitter output power <i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> • 802.11a 16dBm at 6Mbps • 802.11b 15dBm at 1Mbps • 802.11g 15dBm at 6Mbps • 802.11n 14dBm at MCS0 • 802.11ac 14dBm at MCS0
Receiver sensitivity	<ul style="list-style-type: none"> • 802.11a -82dBm at 6Mbps • 802.11b -80dBm at 1Mbps • 802.11g -82dBm at 6Mbps • 802.11n -82dBm at MCS0 • 802.11ac -76dBm at MCS0
Modulation schemes	<ul style="list-style-type: none"> • 802.11a: BPSK, QPSK, 16 QAM, 64 QAM with OFDM • 802.11b: DQPSK, DBPSK, DSSS, and CCK • 802.11g: BPSK, QPSK, 16QAM, 64 QAM with OFDM • 802.11n: BPSK, QPSK, 16 QAM, 64 QAM with OFDM • 802.11ac: BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM with OFDM

Phone	
General SIP Features	<ul style="list-style-type: none"> · Individual account per port · 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 public IP address · NAT keep-alive · Session timer (re-invite/update) · Call types: voice/modem/fax · User programmable Dial Plan · Manual peer table (for P2P calls) · E.164 Numbering, ENUM support
Call Features	<ul style="list-style-type: none"> · Direct IP-to-IP call without SIP proxy (P2P) · Call hold/retrieve · Call awaiting · Forwarding (unconditional, busy, no answer) · Do Not Disturb · Anonymous call blocking · Speed/abbreviated dialing · PIN code before dialing · Phone book · Hotline · Vertical service codes · CLIR · Intercom (internal calls without SIP server) · Filtering SIP packets by IP address/domain name (white/black list) · Alarm clock · Logging and recording calls · Sending text messages to VoIP gateways/IP phones
Voice Features	<ul style="list-style-type: none"> · Codecs: G.711 a/μ-law, G.729A, G.726, G.722, G.723.1, GSMFR, ILBC, SPEEX · 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 · Echo Cancellation (LEC/NLP) · 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, V.152 · Adjustable Flash Time · Advanced call transfer · Volume control (speaker/microphone)

Physical Parameters	
Dimensions (L x W x H)	· 220 x 67 x 195 mm (8.7 x 2.6 x 7.7 in)
Weight	· 465 g (1 lb)

Operating Environment	
Power	· Output: 12V DC, 2.5A
Temperature	· Operating: from 5 to 40 °C · Storage: from -20 to 70 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

Delivery Package	
<ul style="list-style-type: none">· Router DWR-980· Power adapter DC 12V/2.5A· Ethernet cable· Two detachable LTE/3G antennas· RJ-11 telephone cable· "Quick Installation Guide" (brochure)	