

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-956

Wireless AC1200 4G LTE Router with Gigabit Ethernet Ports and 1 FXS Port

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

Wireless Interface

Using the DWR-956 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 an FXS port which allows connection of an analog phone for calls via Internet.

Security

The wireless router DWR-956 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-956 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-956 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"> 16MB, SPI
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 FXS port
LEDs	<ul style="list-style-type: none"> POWER INTERNET 5GHz 2.4GHz 4G 2G/3G LAN WAN VOICE SMS SIGNAL STRENGTH
Buttons	<ul style="list-style-type: none"> ON/OFF button to power on/power off RESET button to restore factory default settings WPS button to set up wireless connection WLAN 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 (3dBi gain) Two internal Wi-Fi antennas for 5GHz band (3dBi 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 Static IP / Dynamic IP Static IPv6 / Dynamic IPv6 PPPoE + Static IP PPPoE + Dynamic IP 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)
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 • 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 rate ³	<ul style="list-style-type: none"> • Downlink: up to 150Mbps • Uplink: up to 50Mbps
Supported frequencies ⁴	<ul style="list-style-type: none"> • Power Class 3 • LTE Band: TX / RX B1: 1920~1980MHz / 2110~2170MHz B2: 1850~1910MHz / 1930~1990MHz B3: 1710~1785MHz / 1805~1880MHz B5: 824~849MHz / 869~894MHz B7: 2500~2570MHz / 2620~2690MHz B8: 880~915MHz / 925~960MHz B20: 832~862MHz / 791~821MHz B38: 2570~2620MHz / 2570~2620MHz B40: 2300~2400MHz / 2300~2400MHz • 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-956 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>)

Wireless Module Parameters	
Standards	<ul style="list-style-type: none"> • IEEE 802.11n/ac • IEEE 802.11b/g/n
Frequency range	<ul style="list-style-type: none"> • 2400 ~ 2483.5MHz • 5150 ~ 5250MHz • 5725 ~ 5850MHz

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

⁴ Supported frequency bands are dependent on regional variants.

Wireless Module Parameters	
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"> • 802.11b 15dBm (+/-1.5dB) • 802.11g 12dBm (+/-1.5dB) • 802.11n HT20 12dBm (+/-1.5dB) HT40 12dBm (+/-1.5dB) • 802.11ac 14dBm
Receiver sensitivity	<ul style="list-style-type: none"> • 802.11b -76dBm at 11Mbps • 802.11g -65dBm at 54Mbps • 802.11n HT20 -64dBm at MCS15 HT40 -61dBm at MCS15 • 802.11ac VHT20 -56dBm at MCS8 VHT40 -53dBm at MCS9 VHT80 -51dBm at MCS9
Modulation schemes	<ul style="list-style-type: none"> • 802.11b: DSSS/BPSK/QPSK/CCK • 802.11g: OFDM/DSSS/BPSK/QPSK/CCK • 802.11n: BPSK/QPSK/16 QAM/64 QAM/DBPSK/DQPSK/ CCK • 802.11ac: BPSK/QPSK/16 QAM/64 QAM/256 QAM

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

Phone	
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 · Blocking hidden number calls · CLIR · Speed/abbreviated dialing · PIN code before dialing · Hotline · Vertical service codes · Intercom (internal calls without SIP server) · Filtering SIP packets by IP address/domain name · Alarm clock · Logging 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) · Echo Cancellation (LEC/NLP) · 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, V.152 · Adjustable Flash Time · Advanced call transfer · Volume control (speaker/microphone)

Physical Parameters	
Dimensions (L x W x H)	· 170 x 80 x 180 mm (6.7 x 3.2 x 7.1 in)
Weight	· 400 g (0.88 lb)

Operating Environment	
Power	· Output: 12V DC, 2A
Temperature	<ul style="list-style-type: none"> · Operating: from 0 to 40 °C · Storage: from -10 to 70 °C
Humidity	<ul style="list-style-type: none"> · Operating: from 10% to 90% (non-condensing) · Storage: from 0% to 95% (non-condensing)

Delivery Package	
<ul style="list-style-type: none"> · Router DWR-956 · Power adapter DC 12V/2A · Ethernet cable · Two detachable LTE/3G antennas · RJ-11 telephone cable · "Quick Installation Guide" (brochure) 	