D-Link®
Building Networks for People

DWR-921

4G LTE Router

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 up to 50Mbps.[1]

Wireless Interface

Using the DWR-921 device, you are able to quickly create a 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). The router can operate as a base station for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n (at the wireless connection rate up to 300Mbps).

Secure Wireless Connection

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

Advanced Capabilities of Wireless Network

Support of guest Wi-Fi network[2] allows you to create a separate wireless network with individual security settings. 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.

Security

The wireless router DWR-921 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.

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1   Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.
2   This function will be implemented in further versions of the firmware.

Easy configuration and update

You can configure the settings of the wireless router DWR-921 via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

The configuration wizard allows you to quickly switch DWR-921 to one of the following modes: router (for connection to a wired or wireless ISP), access point, repeater, or client, and then configure all needed setting for operation in the selected mode in several simple steps.

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	· MT7620N (600MHz)
RAM	· 64MB, DDR1 RAM
Flash	· 16MB, SPI
Interfaces	· Slot for SIM card (mini-SIM) · 10/100BASE-TX WAN port · 4 10/100BASE-TX LAN ports
LEDs	· SIGNAL STRENGTH · SMS · LAN · POWER · 2G/3G · 4G · WLAN
Buttons	· POWER ON/OFF button to power on/power off · WPS button to set up wireless connection · RESET button to restore factory default settings
Antenna	· Two detachable LTE/3G antennas (3dBi gain) · Two internal Wi-Fi antennas (3dBi gain)
MIMO	· 2 x 2
Power connector	· Power input connector (DC)

Software	
WAN connection types	· LTE · PPPoE · IPv6 PPPoE · PPPoE Dual Stack · Static IPv4 / Dynamic IPv4 · Static IPv6 / Dynamic IPv6 · PPPoE + Static IP (PPPoE Dual Access) · PPPoE + Dynamic IP (PPPoE Dual Access) · PPTP/L2TP + Static IP · PPTP/L2TP + Dynamic IP
Network functions	· Support of IEEE 802.1X for Internet connection · DHCP server/relay · Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation · Automatic obtainment of LAN IP address (for access point/repeater/client modes) · 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 · Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port

Software	
Firewall functions	· 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	· IPsec/PPTP/L2TP/PPPoE pass-through · IPsec tunnels
Management	· 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 logging to remote host · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client · SNMP agent

LTE Module Parameters	
LTE connection rate[3]	· Downlink: up to 150Mbps · Uplink: up to 50Mbps
Supported frequencies[4]	· 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	· 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[5]

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3   Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.
4   Supported frequency bands are dependent on regional variants.
5   This function will be implemented in further versions of the firmware.

Wireless Module Parameters

Standards	· IEEE 802.11b/g/n
Frequency range	· 2400 ~ 2483.5MHz
Wireless connection security	· WEP · WPA/WPA2 (Personal/Enterprise) · MAC filter · WPS (PBC/PIN)
Advanced functions	· Support of client mode · WMM (Wi-Fi QoS) · Information on connected Wi-Fi clients · Advanced settings · Guest Wi-Fi[6] / support of MBSSID
Wireless connection rate	· IEEE 802.11b: 1, 2, 5.5, and 11Mbps · IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15)
Transmitter output power *The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country*	· 15dBm
Receiver sensitivity	· 802.11b -86dBm at 11Mbps · 802.11g -81dBm at 54Mbps · 802.11n HT20 -71dBm at MCS15 HT40 -67dBm at MCS15
Modulation schemes	· 802.11b: DSSS, BPSK, QPSK, CCK · 802.11g: OFDM · 802.11n: OFDM

Physical Parameters

Dimensions (L x W x H)	· 190 x 112 x 22 mm (7.5 x 4.4 x 0.9 in)
Weight	· 295 g (0.7 lb)

Operating Environment

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

Delivery Package

· Router DWR-921
· Power adapter DC 12V/1A
· Ethernet cable (CAT 5)
· Two detachable LTE/3G antennas
· "Quick Installation Guide" (brochure)

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6   This function will be implemented in further versions of the firmware.