Product Highlights

HIGH SPEED

Total wireless connection rate up to 750Mbps

USB PORT

Support of USB modem for Internet connection via 4G/3G/2G network, USB storage, and printer

IPV6 SUPPORT

All needed functions for up-to-date networking

DIR-816L

Wireless AC750 Dual Band Router & Access Point with 3G/CDMA/LTE Support and USB Port

USB Port
The router is equipped with a USB port for connecting a USB modem, which can be used to establish connection to the Internet. In addition, to the USB port of the router you can connect a USB storage device, which will be used as a network drive, or a printer.

Wireless Interface

Using the DIR-816L 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 733Mbps[1]).

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.

Router Mode
You are able to connect DIR-816L switched to the router mode to a cable or DSL modem or to a private Ethernet line and use a high-speed Internet connection to successfully fulfill a wide range of professional tasks.

Access Point Mode
You are able to use DIR-816L switched to the access point mode to create a wireless network or to connect to a wired router.

"Client" Function
The "client" function in the router mode allows using DIR-816L as a WISP repeater, in the access point mode as a wireless client and a wireless repeater.

Security
The wireless router DIR-816L 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.

Easy configuration and update
You can configure the settings of the wireless router DIR-816L via the user-friendly web-based interface (the interface is available in several languages).
Now you can simply update the firmware: the router itself finds approved firmware on D-Link update server and notifies when ready to install it.

1 Up to 300Mbps for 2.4GHz and up to 433Mbps for 5GHz.

D-Link®
Building Networks for People

DIR-816L

Wireless AC750 Dual Band Router & Access Point with 3G/CDMA/LTE Support and USB Port

Hardware	
Interfaces	· 10/100BASE-TX WAN port · 4 10/100BASE-TX LAN ports · USB 2.0 port
LEDs	· Power · Internet · WLAN / WPS · 4 LAN LEDs
Buttons	· ON/OFF button to power on/power off · RESET button to restore factory default settings · WPS button to set up secure wireless connection and enable/disable wireless network
Antenna	· Two external dual band antennas (4dBi gain for 2.4GHz and for 5GHz)
MIMO	· 2 x 2
Power connector	· Power input connector (DC)

Software	
Operation Modes	· Router mode · Access point mode
WAN connection types	· LTE · 3G · PPPoE · IPv6 PPPoE · PPPoE Dual Stack · Static IP / Dynamic IP · Static IPv6 / Dynamic IPv6 · PPPoE + Static IP / Dynamic IP · PPTP/L2TP + Static IP · PPTP/L2TP + Dynamic IP
Network functions	· Support of IEEE 802.1X for Internet connection · DHCP server/relay · DHCPv6 server (Stateful/Stateless), IPv6 prefix delegation · DNS relay · Support of DNSv6 AAAA records · Dynamic DNS · Static IP routing · Static IPv6 routing · IGMP Proxy · RIP · Support of UPnP IGD · Support of VLAN · Flow control · WAN ping respond · Support of SIP ALG · Support of RTSP · Channel reservation · Manual speed and duplex mode setup for each Ethernet port
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

Software	
VPN	· IPSec/PPTP/L2TP/PPPoE pass-through · IPSec tunnels
USB interface functions	· USB modem Auto connection to available type of supported network (4G/3G/2G)[2] Enabling/disabling PIN code check, changing PIN code[3] · USB storage File browser Print server Access to storage via accounts Built-in Samba server Built-in FTP server Built-in DLNA server Built-in Transmission torrent client; uploading/downloading files from/to USB storage
Management	· Local and remote access to settings through TELNET/WEB (HTTP/HTTPS) · Multilingual web-based interface for configuration and management · 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 function · Traceroute utility · TR-069 client

Wireless Module Parameters	
Standards	· IEEE 802.11a/n/ac · IEEE 802.11b/g/n
Frequency range	· 2400 ~ 2483.5MHz · 5150 ~ 5350MHz
Wireless connection security	· WEP · WPA/WPA2 (Personal/Enterprise) · MAC filter · WPS (PBC/PIN)
Advanced functions	· WLAN splitting (up to 4 SSIDs) · “Client” function in the router mode (WISP repeater) · “Client” function in the access point mode (wireless network client, wireless network repeater) · WMM (Wi-Fi QoS) · Managing connected stations · Advanced settings
Wireless connection rate	· 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 433Mbps (from MCS0 to MCS9)
Transmitter output power *The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country*	· 802.11a (typical at room temperature 25 °C) 16dBm (+/-2dB) at 6, 9, 12, 18, 24Mbps 15dBm (+/-2dB) at 36Mbps 14dBm (+/-2dB) at 48, 54Mbps · 802.11b (typical at room temperature 25 °C) 16dBm (+/-2dB) at 1, 2, 5.5, 11Mbps · 802.11g (typical at room temperature 25 °C) 16dBm (+/-2dB) at 6, 9, 12, 18, 24, 36Mbps 15dBm (+/-2dB) at 48Mbps 14dBm (+/-2dB) at 54Mbps

2 For LTE and GSM USB modems.
3 For GSM USB modems only.

Wireless Module Parameters	
	· 802.11n (typical at room temperature 25 °C) 2.4GHz, HT20 16dBm (+/-2dB) at MCS0/1/2/3/4, MCS8/9/10/11/12 15dBm (+/-2dB) at MCS5, MCS13 14dBm (+/-2dB) at MCS6/7, MCS14/15 2.4GHz, HT40 16dBm (+/-2dB) at MCS0/1/2/3/4, MCS8/9/10/11/12 15dBm (+/-2dB) at MCS5, MCS13 14dBm (+/-2dB) at MCS6/7, MCS14/15 5GHz, HT20 16dBm (+/-2dB) at MCS0/1/2/3/4 15dBm (+/-2dB) at MCS5 14dBm (+/-2dB) at MCS6/7 5GHz, HT40 16dBm (+/-2dB) at MCS0/1/2/3/4 15dBm (+/-2dB) MCS5 14dBm (+/-2dB) MCS6/7 · 802.11ac (typical at room temperature 25 °C) HT20 16dBm (+/-2dB) at MCS0/1/2/3/4 15dBm (+/-2dB) at MCS5 14dBm (+/-2dB) at MCS6/7 12dBm (+/-2dB) at MCS8 HT40 16dBm (+/-2dB) at MCS0/1/2/3/4 15dBm (+/-2dB) at MCS5 14dBm (+/-2dB) at MCS6/7 12dBm (+/-2dB) at MCS8 11dBm (+/-2dB) at MCS9 HT80 16dBm (+/-2dB) at MCS0/1/2/3/4 15dBm (+/-2dB) at MCS5 14dBm (+/-2dB) at MCS6/7 12dBm (+/-2dB) at MCS8 11dBm (+/-2dB) at MCS9
Receiver sensitivity	· 802.11a (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps · 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -79dBm at 11Mbps -82dBm at 5.5Mbps -84dBm at 2Mbps -84dBm at 1Mbps · 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps

Wireless Module Parameters	
	· 802.11n (typical at PER = 10% (1000-byte PDUs)) 2.4GHz/5GHz, HT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS2 -74dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 2.4GHz/5GHz, HT40 -79dBm at MCS0 -76dBm at MCS1 -74dBm at MCS2 -71dBm at MCS3 -67dBm at MCS4 -63dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7 · 802.11ac (typical at PER = 10% (1000-byte PDUs)) HT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS2 -74dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 -59dBm at MCS8 -57dBm at MCS9 HT40 -79dBm at MCS0 -76dBm at MCS1 -74dBm at MCS2 -71dBm at MCS3 -67dBm at MCS4 -63dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7 -56dBm at MCS8 -54dBm at MCS9 HT80 -76dBm at MCS0 -73dBm at MCS1 -71dBm at MCS2 -68dBm at MCS3 -64dBm at MCS4 -60dBm at MCS5 -59dBm at MCS6 -58dBm at MCS7 -53dBm at MCS8 -51dBm at MCS9
Modulation schemes	· 802.11a: BPSK, QPSK, 16QAM, 64QAM with OFDM · 802.11b: DQPSK, DBPSK, DSSS, CCK · 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM · 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM · 802.11ac: BPSK, QPSK, 16QAM, 64QAM, up to 256QAM with OFDM

Physical Parameters	
Dimensions	· 151.6 x 112 x 30.5 mm (6 x 4.4 x 1.2 in)
Weight	· 204 g (0.5 lb)

Operating Environment	
Power	· Output: 12V DC, 1A
Temperature	· Operating: from 0 to 40 °C · Storage: from -20 to 65 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

Delivery Package

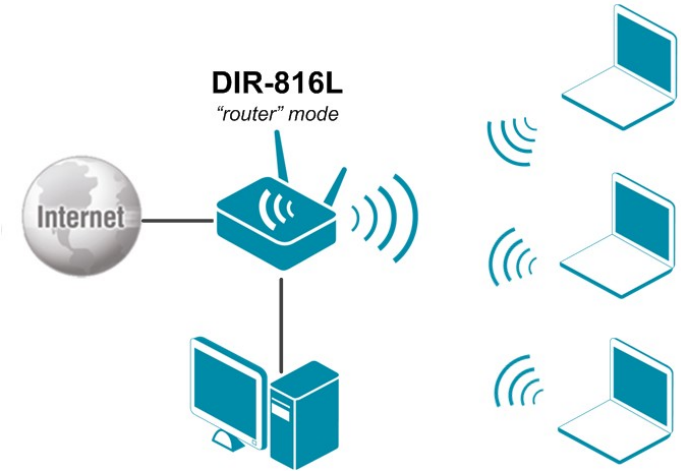
- Router DIR-816L
- Power adapter DC 12V/1A
- Ethernet cable
- “Quick Installation Guide” (brochure)

Supported USB modems[4]	
GSM	· Alcatel X500 · D-Link DWM-152C1 · D-Link DWM-156A6 · D-Link DWM-156A7 · D-Link DWM-156C1 · D-Link DWM-157B1 · D-Link DWM-157B1 (Velcom) · D-Link DWM-158D1 · D-Link DWR-710 · Huawei E150 · Huawei E1550 · Huawei E156G · Huawei E160G · Huawei E169G · Huawei E171 · Huawei E173 (Megafon) · Huawei E220 · Huawei E352 (Megafon) · Huawei E367 (3G mode) · Huawei E392 (3G mode) · ZTE MF112 · ZTE MF192 · ZTE MF626 · ZTE MF627 · ZTE MF652 · ZTE MF667 · ZTE MF668 · ZTE MF752
CDMA	· Airplus MCD-650 · Airplus MCD-800 · AnyDATA ADU-300A · AnyDATA ADU-500A · AnyDATA ADU-510A · Huawei EC306 · ZTE AC5710 · ZTE AC5730

4 The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.

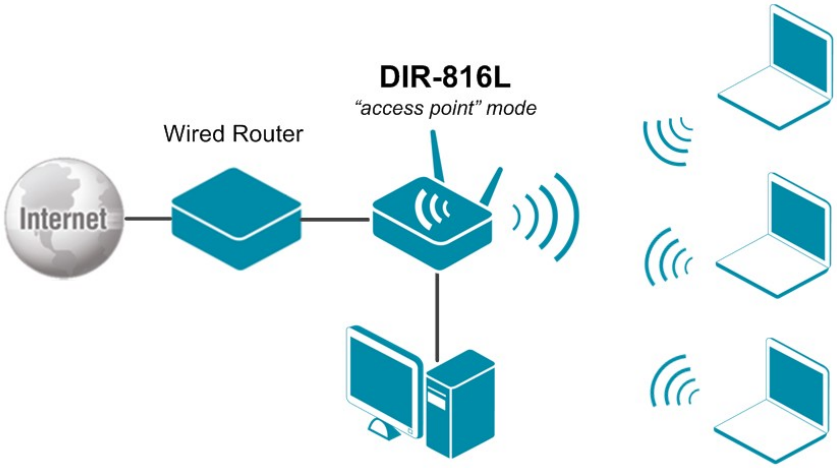
Supported USB modems	
LTE	· Huawei E3131 · Huawei E3272 · Huawei E3351 · Huawei E367 · Huawei E392 · Megafon M100-1 · Megafon M100-2 · Megafon M100-3 · Megafon M100-4 · Megafon M150-1 · MTS 824F · Quanta 1K6E (Beeline 1K6E) · Yota LU-150 · Yota WLTUBA-107 · ZTE MF823 · ZTE MF827
Smartphones in USB tethering mode	· Some models of Android smartphones

Router



The DIR-816L device in the "router" mode is connected to a private Ethernet line or to a cable or DSL modem. Computers connect to DIR-816L via wireless or wired connection.
It is necessary to specify the same encryption parameters and the channel of the wireless network for DIR-816L and computers with Wi-Fi adapters. In addition, it is necessary to configure a WAN connection for DIR-816L.

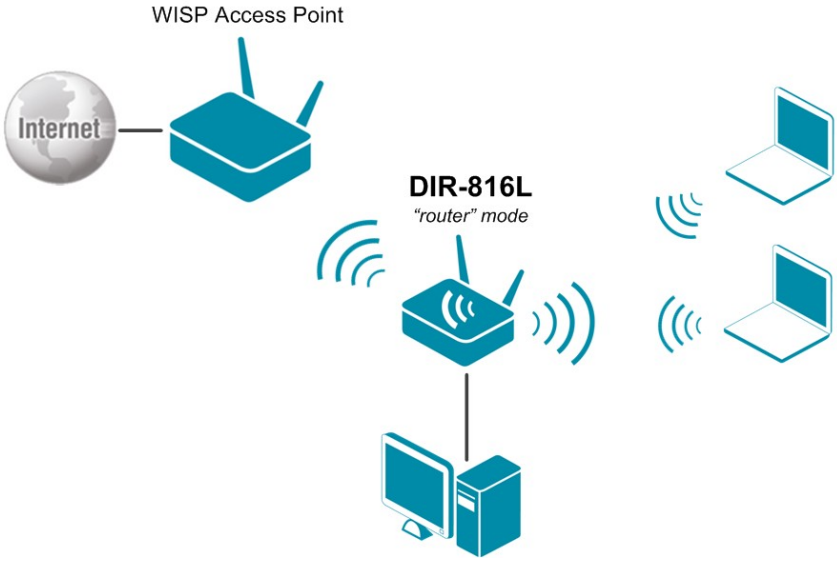
Access Point



The DIR-816L device in the "access point" mode is connected to the wired router. Computers connect to DIR-816L via wireless or wired connection.
It is necessary to specify the same encryption parameters and the channel of the wireless network for DIR-816L and computers with Wi-Fi adapters.

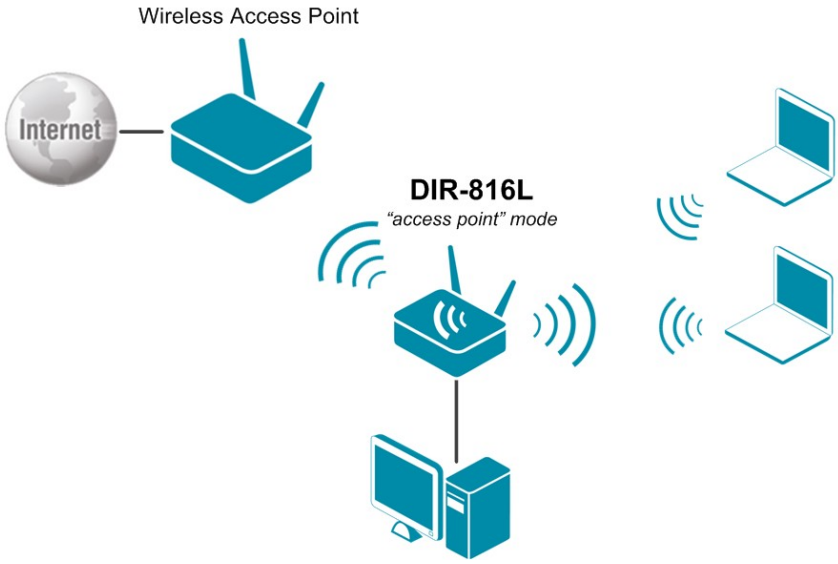
Client

WISP Repeater



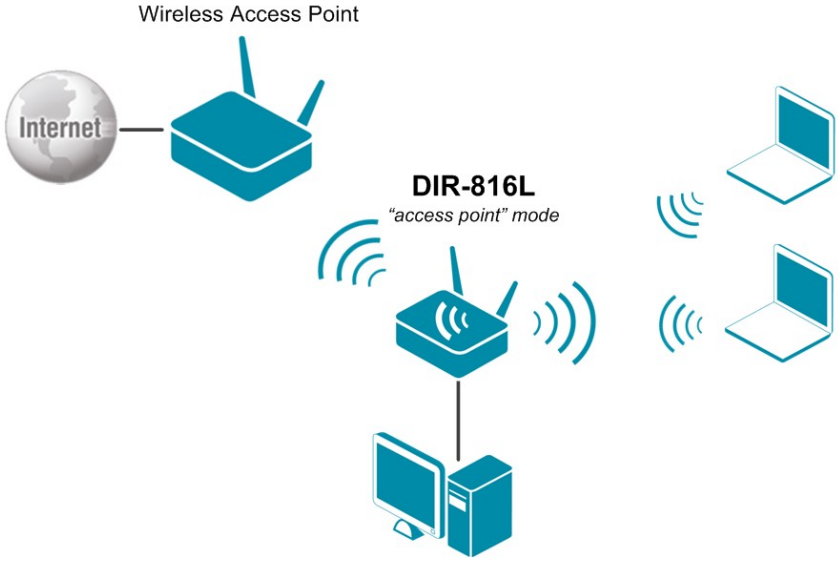
The DIR-816L device in the "router" mode is connected to a WISP access point via wireless connection. Computers connect to DIR-816L via wireless or wired connection.
It is necessary to configure the same channel of the wireless connection for DIR-816L and the WISP access point. Other parameters of the wireless network of DIR-816L do not depend upon the settings of the WISP access point. In addition, it is necessary to configure a WAN connection for DIR-816L.

Wireless Network Client



The DIR-816L device in the "access point" mode is connected to an access point via wireless connection. Computers connect to DIR-816L via wireless or wired connection. It is necessary to configure the same channel of the wireless connection for DIR-816L and the remote access point. Other parameters of the wireless network of DIR-816L do not depend upon the settings of the remote access point.

Wireless Network Repeater



The DIR-816L device in the "access point" mode is connected to an access point via wireless connection. Computers connect to DIR-816L via wireless or wired connection. It is necessary to configure the same parameters of the wireless connection (the name of the wireless network, encryption parameters, and the channel) for DIR-816L and the remote access point.