D-Link®

Wi-Fi 6

Product Highlights

Global Mobile Broadband

3G/4G/LTE-A mobile connectivity lets you take your broadband connection with you wherever you go

Wireless AX and Gigabit Ethernet

Stream HD multimedia across your home without interruption, using the fastest wired and wireless technologies available today

Simple, secure setup

Set up the DWR-957X in no time with the web-based setup wizard, and create secure wireless connections easily using Wi-Fi Protected Setup (WPS)

DWR-957X

AX3000 Fibre/LTE-A (CAT 6) Gigabit Router
with SIP, VoIP, VoLTE, CS & Fax support

Features

Connectivity

- Supports multiple WAN connections for flexibility, redundancy, and future connectivity
- Built-in LTE-A and ETH WAN for connecting to your high-spead broadband Internet connection
- 1 x Gigabit WAN port supports high-speed Internet connections of today and tommorow
- 4 x Gigabit LAN ports to connect wired devices for high-speed online activities
- Wireless 802.11ax for high speed connections to all your PC's and mobile devices
- 1 x USB 3.0 port to share media

Security

- Wi-Fi Protected Setup (WPS) to quickly and securely add devices to your network
- WPA/WPA2 encryption to secure your wireless traffic

Ease of Use

- Quick Setup Wizard

The DWR-957X AX3000 Fibre LTE-A (CAT 6) Gigabit Router with VoIP, VoLTE, CS & Fax is a highly integrated router with everything your home or small business needs for high-speed internet access. It combines a Gigabit Ethernet Internet Port, 4G mobile Internet support, Voice over IP (VoIP), Voice over LTE (VoLTE), Circuit Service (CS) and Fax with Gigabit wireless together in a single, easy to use product that shares an internet connection for all your devices.

Fast and Reliable Home Network

The D-Link DWR-957X AX3000 Fibre LTE-A (CAT 6) Gigabit Router creates a blazing fast home network that connects all of your devices to your broadband Internet connection. Concurrent dual-band 802.11ax brings you the future of high-bandwidth wireless connectivity, allowing you to stream HD video, make Internet voice calls, VoLTE and CS phone calls and surf the Internet from every corner of your home without interruption. Gigabit Ethernet ports provide high-speed wired connections for up to four PCs or other devices. It's stylish, easy to use, and provides you with a reliable network for today and tomorrow.

Multiple Failover Redundancy and Future Connectivity

The D-Link DWR-957X Fibre LTE-A Router comes not only with a built-in high speed CAT 6 LTE and Gigabit Ethernet WAN port. This means that if your primary connection method should fail, the DWR-957X will automatically fall back to your pre-defined backup connection.

Voice over IP

The DWR-957X provides Voice over IP technology with advanced communication features, and is compatible with industry-wide phone services so you can make and receive calls reliably. Use the FXS phone port on the DWR-957X to connect an ordinary phone set for your VoIP phone calls, and use the router functions to connect all of your family members or personal to the Internet for a fast and secure online experience throughout your home or office.

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Smooth Streaming with Wireless AC

The DWR-957X uses the latest Wi-Fi 6 technology, which provides transfer rates of up to 3 Gbps1 (1,8K AC + 1,2K N). The router operates on both the 2.4 GHz and 5 GHz wireless bands at the same time using concurrent dual- band technology and three external antennas. This allows you to browse the web, chat and e-mail using the 2.4 GHz band, while simultaneously streaming digital media, playing online games, or making Internet voice calls on the 5 GHz band.

Designed for Optimal Wireless Coverage

The DWR-957X's antennas have been carefully designed to ensure that you will get little to no dead space in any environment. The high-powered Amplifier sends the signal into the farthest corners of your home. Furthermore, the DWR-957X's multiple external antennas improve wireless reception by bringing signals to where they are most needed to achieve the best possible performance.

File Sharing Right at Your Fingertips

The DWR-957X lets you connect a USB storage device and instantly share documents, movies, pictures, and music. You can put your music library on a USB drive and share it with your entire home. You can show photos on the living room TV while a family member watches a movie on their computer. You can stream media files to multiple devices without interruption, or save them to your device for offline playback. The intuitive interface lets anyone immediately connect to a variety of entertainment options stored securely on your own storage device.

Easy to Set Up and Secure

Setting up the DWR-957X is easy with the D-Link setup wizard. Simply open the setup utility and follow a few easy steps to get your home network up and running. You can also set up a secure network with the touch of a button using Wi-Fi Protected Setup (WPS). Simply press the respective WPS buttons on each devices to instantly establish a secure connection to a new device. Rest assured that your network is secure with WPA/WPA2 wireless encryption and built-in dual active firewalls (SPI and NAT), so you can shop online and do your online banking with confidence.

Secure and Smooth Transmissions

The DWR-957X has built-in dual active firewalls (SPI and NAT), so you can shop online and do your online banking with confidence. It is also equipped with WPA wireless security and access control to protect your network from unauthorized access and outside threats so you can use the Internet with confidence. In addition, QoS priority queues and packet prioritization minimize traffic congestion and deliver smooth VoIP and streaming media, providing you with the best possible Internet experience.

Technical Specifications

General

Device Interfaces	• 4 x 10/100/1000 Gigabit LAN Ports • 1 x 10/100/1000 Gigabit WAN Port • 1 x FXS VoIP / VoLTE / CS Ports • 802.11ax/ac/n/g/b Wireless LAN [1] • CAT 6 LTE-A (Qualcomm solution) • 1 x USB 3.0 Port	• Power Button • WPS Button • Reset Button
Antenna Configuration	• 2 x 5dBi detachable external LTE antennas • 2 x 5dBi Fixed external Wi-Fi Antennas	
Data Signal Rate	• 2.4 GHz • 1200 Mbps	• 5 GHz • 1800 Mbps • LTE • DL 300 Mbps UL 50 Mbps[1]

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General

Standards	• IEEE 802.11ax • IEEE 802.11ac • IEEE 802.11n • IEEE 802.11g • IEEE 802.11b	• IEEE 802.3 • IEEE 802.3u • IEEE 802.3ab • IEEE 802.3az • IEEE 802.3x
Network Protocols	• RFC2516 PPP over Ethernet (PPPoE) • RFC1662 PPP in HDLC-like Framing • RFC1332 PPP Internet Protocol Control Protocol • Support ALG (Application Level Gateways) • DHCP Client	

LTE Support Band

DWR-956M/A	• WCDMA: B1/5/8 • FDD LTE: B1/B3/B5/B7/B8/B20 • GSM: 850/900/1800/1900 • TDD LTE: B38/B40
DWR-956M/B	• TDD LTE: B42/B43

Functionality

Security	• WPA & WPA2 (Wi-Fi Protected Access) • Wi-Fi Protected setup (WPS) - PIN/PBC	
Advanced Features	• Multi-language Web Setup Wizard • UPnP support • Multiple PVC (up to 8)	• Dual Active Firewall • VPN pass-through/multi-session PPTP/L2TP/IPSec • 802.1p QoS
Routing Features	• RFC768 User Datagram Protocol (UDP) • RFC791 Internet Protocol (IP) • RFC792 Internet Control Message Protocol (ICMP) • RFC793 Transmission Control Protocol (TCP) • RFC826 An Ethernet Address Resolution Protocol (ARP) • RFC862 Echo Protocol • Support IP routing • Support transparent bridging	• Support source and destination routing • Support DHCP server/client • Support UPnP • Support NAT,NAPT • Support DMZ • Support IP QoS • Support IGMP proxy • Support IPv6
Management Features	• Device Configuration, Management and Update • Web based GUI • Command Line Interface via serial port, telnet, or SSH • Universal Plug and Play (UPnP) Internet Gateway Device	• WAN Management Protocol (TR-069) • SNMP v1/v2 • PSI configuration file upload and download • Date/time update from SNTP Internet Time Server

VoIP Features

DSP Feature list	• FAX/data bypass > 711 pass through
	• T38 FAX Relay > Supports T.38 versions (06/98 to 03/02), V34 included. > V.152 FAX > T.38 over UDPTL - ASN.1 encoding/decoding of UDPTL packets (Packet loss, Recovery, Redundancy)
	• RTP/RTCP transfer > RTP/AVP - RFC3551 (formerly 1890) > RTP/RTCP - RFC3550 (formerly 1889)

	• Jitter Buffer > Static/dynamic, up to 200m
	• Caller ID generation > Support type 1 and type 2 > Format: Bellcore, ETSI FS
	• Codec support
	> G.711 A-Law > G.711 U-Law > G.722 > G.729 Annex A, B
	• Digital gain configuration > Range:+/- 20db step by 0.5db > The voice's volume controlled by the Host per channel > On the fly modification
	• Packet time length > 10ms, 20ms, 30ms, 40ms
	• Packet Loss Concealment > Packet Loss Concealment – ITU-T G.711 Appendix I
	• G729 VAD&CNG
	• G.711 VAD&CNG > Voice Activity Detector, Comfort Noise Generation – ITU-T G.711 Appendix II > CNG RFC 3389
	• DTMF generation &detection > ITU-T Q.23 and Q.24 > DTMF tones generation and detection compliant with the TIA 464B standard.
	• Echo Canceller > Echo canceller automatically enabled when both volume <=36dBm > Echo tail length (Up to 128ms) > Echo canceller disabled by 2100Hz tone with phase reversal. > Echo canceller must remove echo with ERL=0~3dB > Line EC, G.168-2004 compliant
	• Pulse Dial Detection
	• 3-Way conference
	• Tone generation > Call progress tones generation > Generate howler tones > Quad tone generation
SIP / Call Control Feature List	• SIP Protocol > RFC 2617, HTTP Authentication: Basic and Digest Access Authentication. > RFC3428- Session Initiation Protocol (SIP) Extension for Instant Messaging > RFC3994- Indication of Message Composition for Instant Messaging > RFC2976- The SIP INFO Method > RFC3842-A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP) > RFC 2976, The SIP INFO Method > RFC3310-Hypertext Transfer Protocol (HTTP) Digest Authentication Using Authentication and Key Agreement (AKA) > RFC4169-Hypertext Transfer Protocol (HTTP) Digest Authentication Using Authentication and Key Agreement (AKA) Version-2 > RFC4566 , SDP: Session Description Protocol(new) > RFC 3264, An Offer –Answer Model with the SDP > RFC 3265 - SIP- Specific Event Notification > RFC 3311, The SIP UPDATE Method > RFC 3842, - A Message Waiting Indication Event Package for the SIP > RFC 3960, Early Media and Ringing Tone Generation in the SIP

	> RFC 3325, Private Extensions to the SIP for Asserted Identity within Trusted Networks (Partial) > RFC 3261, SIP: Session Initiation Protocol version 2 > RFC 2327, SDP: Session Description Protocol > RFC 3326, The Reason Header Field for SIP (Partial) > RFC 3515, The SIP REFER Method > RFC 3262, Reliability of Provisional Responses in the SIP > RFC 3263, SIP: Locating SIP Servers > RFC 3581, - An Extension to the SIP for Symmetric Response Routing > RFC 4028, Session Timers in the SIP > RFC 4566 - SDP Session Description Protocol > RFC4488- Suppression of Session Initiation Protocol (SIP) REFER Method Implicit Subscription > RFC3966 -The tel URI for Telephone Numbers > RFC4028-Session Timers in the Session Initiation Protocol (SIP) > RFC3093- Session Initiation Protocol (SIP) Extension for Event State Publication > RFC3605- Real Time Control Protocol (RTCP) attribute inSession Description Protocol (SDP) > RFC3608, Session Initiation Protocol (SIP) Extension Header Field for Service Route Discovery During Registration > RFC3327 Session Initiation Protocol (SIP) Extension Header Field for Registering Non-Adjacent Contacts > RFC3891 The Session Initiation Protocol (SIP) "Replaces" Header > RFC3892 The Session Initiation Protocol (SIP) Referred-By Mechanism > RFC3420 Internet Media Type message/sipfrag > RFC2046- Multipurpose Internet Mail Extensions (MIME) Part Two:Media Types > RFC5621- Message Body Handling in the Session Initiation Protocol (SIP) > RFC4320-Actions Addressing Identified Issues with the Session Initiation Protocol's (SIP) Non-INVITE Transaction > RFC4321-Problems Identified Associated with the Session Initiation Protocol's (SIP) Non-INVITE Transaction > RFC5057-Multiple Dialog Usages in the Session Initiation Protocol > RFC4475-ession Initiation Protocol (SIP) Torture Test Messages > RFC5621-Message Body Handling in the Session Initiation Protocol (SIP) > RFC2833 - RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals > IETF RFC 3310 HTTP Digest Authentication using Authentication and Key Agreement (AKA) when talking with the registration server. > IETF RFC 3311 The Session Initiation Protocol(SIP)UPDATE Method. > IETF RFC 2198 The redundancy function, RTP Payload for Redundant Audio Data > IETF RFC 3555 MIME Type Registration of RTP Payload Formats > IETF RFC 3388 Grouping of Media Lines in the Session Description Protocol(SDP) > IETF RFC 3489 STUN - Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators (NATs).
	• WMI (Support SIP Stack)
	• Call Feature > Busy Call Forward > Attended Call Transfer > Do not Disturb > Speed dial Number > Call waiting > 3-Way conference > No Reply Call Forward > Blind Call Transfer > Unconditional Call Forward > Hotline > A digit map of at least 256 characters. > Draft-rosenberg-midcom-turn-08, Traversal Using Relay NAT (TURN).

Physical

Dimensions	• 210 x 150 x 37 mm (8.26 x 5.91 x 1.46 inches)
Weight	• -20℃ ~ 85℃
Power	• Input: 100 ~240 V • Output: 12 V / 1.5 A
Temperature	• Operating: 0 to 45 °C (32 to 113 °F) • Storage: -20 to 70 °C (-4 to 158 °F)
Humidity	• 10 % ~ 95% non-condensing
Certifications	• CE • FCC • LVD • RCM

Order Information

Part Number	Description
DWR-957X	AC3000 Fibre/LTE-A (CAT 6) Gigabit Router with VoIP, VoLTE, CS & Fax