D-Link®
Building Networks for People

Wireless AC

The D-Link Wireless AC Family

D-Link's Wireless AC Family allows you to creates the fastest home network possible today, connecting all of your computers and mobile devices to your broadband Internet connection. Concurrent dual-band 802.11ac with D-Link's AC SmartBeam™ technology[1] brings you the future of high-bandwidth wireless connectivity, allowing you to stream HD video, make Internet 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 is IPv6-ready for a reliable network today and tomorrow.

The future of wireless starts with Wireless AC and, with D-Link, it can start today.

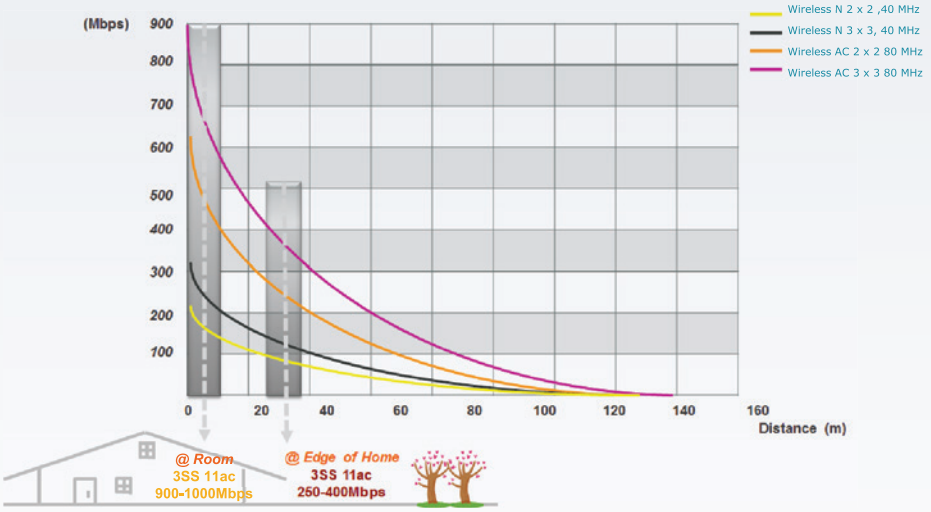
Fast and Reliable Home Networking

D-Link's Wireless AC Family offers an extensive choice of routers and wireless adapters for anyone looking to upgrade to the latest wireless standard. The next generation Wireless AC allows you to connect more devices at faster speeds and further distances. Wireless AC is both backward-compatible and future proof. You do not need to change any existing devices while enjoying a tremendous speed boost on new devices that support Wireless AC. With dual-band (both 2.4 GHz and 5 GHz), you can keep all your less bandwidth-hungry devices on the 2.4 GHz band and upgrade those devices that run bandwidth-intensive applications to Wireless AC (such as HD video streaming).

Using Wireless AC products you can already download content, synch files and stream multimedia data to mobile devices up to 3 times faster[2]. With Wireless AC product, you can eliminate deadspots, help improve wireless range, and stream HD movies to more devices in more places throughout the home.

Greater Coverage and Speeds with the latest Wireless AC and Revolutionary AC SmartBeam™ Technology

Using the latest Wireless AC technology, D-Link's Wireless AC solution can provide wireless speeds of up to 1.3 Gbps, 4 times faster than Wireless N[2]. D-Link's intelligent AC SmartBeam™ technology[1] guarantees continuous blazing fast wireless speeds to all your devices, anywhere in your home, even under heavy network utilisation or in rooms that have bad wireless signal. Faster gigabit wireless speeds allow you to download contents and sync files over 4 times faster[2] than the previous standard and provide you with whole home coverage.

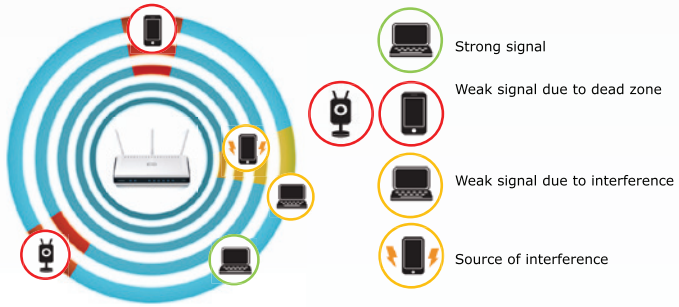


DIR-868L actual throughput benefits

AC SmartBeam™ Explained

AC SmartBeam™ targets devices with weak reception by sending a focused signal to the device. This ensure that all the devices within your network gets optimised wireless connectivity no matter where they are.

Standard Router



AC SmartBeam™ Router

Dual-Band Connectivity

All D-Link Wireless AC router support dual-band wireless, operating on both the 2.4 GHz band and 5 GHz wireless bands at the same time. 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 phone calls on the 5 GHz band.

The D-Link Wireless AC Family

Stay informed and protected with mydlink™

The mydlink™-enabled Wireless AC routers give you complete control by allowing you to monitor who is connecting to your network, which sites they are visiting and block unwanted visitors. You can monitor your home network remotely through the mydlink™ web portal or by downloading the free mydlink™ app available for your iOS or Android devices.

With the mydlink™ app for iOS and Android devices you can quickly and easily stay in control of your network anywhere with a Wi-Fi or 3G connection.

File Sharing Right at Your Fingertips

Connect a USB storage device to your D-Link Wireless AC Router[3] to create a shared storage space, making it easy to access and share files between computers and devices connected to your network. Plug in a USB hard drive to stream your library of videos and music to your laptop. Plus, the SharePort™ Mobile app for iOS and Android devices allows you to back up photos and videos stored on your device. You can even customise your shared storage space by creating separate accounts to control access to the USB drive, so you can share your music with everyone but keep your personal files private. This Cloud Router can also be used as a media server for your home to stream media stored on your USB storage drive to any DLNA compliant player like the Boxee Box by D-Link.

The SharePort™ Mobile app for iOS or Android devices offers effortless access to stored personal files and multimedia. Music, video, and photos can be streamed or transferred from a USB drive that is connected to a Cloud Router, to multiple mobile devices from this intuitive app. It's also a great way to enjoy media without using valuable memory on your mobile device!

The problem with current Wi-Fi

Interference

- Most mobile devices and wireless routers use the 2.4 GHz frequency
- Many household devices such as cordless phones, microwaves, and neighbours' Wi-Fi routers use the same frequency
- When such unwanted traffic gets in your way, it slows down overall packet flow

Congestion

- Congestion occurs when too many devices are accessing the router at the same time
- Data are forced to queue to get onto the "lanes", resulting in slow-moving traffic

Why Wireless AC?

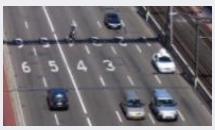
Exclusive use of the 5 GHz frequency

- With so many devices connected to the 2.4 GHz frequency band, interference has reached a point where it can cripple your data flow and speed
- The 5 GHz frequency band is less common and Wireless AC uses the 5 GHz band for its transmission. With fewer devices connected you get less interference and thus faster speeds
- To understand this better, imagine other cars caught in a jam while you speed through the free lane

Wider channel bandwidth

- Imagine driving on a highway; the more lanes the highway has, the more and faster cars can pass through.
- The same with wireless. Previous wireless standards had bands ranging from 20 MHz to 40 MHz. But with Wireless AC, the band has increased to 80 MHz, meaning a wider band for your data to pass through faster.

Existing wireless is like cars going slowly on a 3-lane motorway



Wireless AC is like the same amount of cars going fast on a 6-lane motorway

[1] AC SmartBeam™ is supported on DIR-868L and DIR-860L only.
[2] When compared with Wireless N300. Requires mobile devices that supports 802.11ac wireless standard. Maximum wireless signal rate derived from IEEE standard 802.11ac (draft) specifications which are subject to change. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
[3] SharePort™ is supported on DIR-868L, DIR-865L, DIR-860L and DIR-850L only.

The D-Link Wireless AC Family

Features

Price

DIR-810L

- 433 Mbps 5 GHz
- 300 Mbps 2.4 GHz
- Fast Ethernet

DIR-850L

- 867 Mbps 5 GHz
- 300 Mbps 2.4 GHz
- Gigabit Ethernet
- USB SharePort

DIR-860L

- 867 Mbps 5 GHz
- 300 Mbps 2.4 GHz
- **AC SmartBeam™**
- Gigabit Ethernet
- USB SharePort

DSL-3580L*

- ADSL/ADSL2+
- 867 Mbps 5 GHz
- 300 Mbps 2.4 GHz
- **AC SmartBeam™**
- Gigabit Ethernet
- USB SharePort

DIR-868L

- 1300 Mbps 5 GHz
- 450 Mbps 2.4 GHz
- **AC SmartBeam™**
- Gigabit Ethernet
- USB SharePort

* Available in Q3 2013

DWA-171

- AC580 (433Mbps + 150Mbps)
- Wi-Fi Protected Access (WPA & WPA2)
- WPS button
- USB 2.0

DWA-182

- AC1200 (867Mbps + 300Mbps)
- Wi-Fi Protected Access (WPA & WPA2)
- WPS button
- USB 2.0
- USB extension cradle

For more information: www.dlink.com

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Updated May 2013

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