

# D-Link's guide to Wi-Fi 6



## Why do you need Wi-Fi 6?

Because your smart home is reaching the limits of its potential. Prevailing Wi-Fi standards simply aren't built to support "noisy" Wi-Fi environments with countless personal devices and smart home gadgets running simultaneously 24/7.

Wi-Fi 6 brings next-generation Wi-Fi technology into your home, giving you the quantum leap in capacity, speed, and range you need to handle all your Wi-Fi demands.

**Perfect for high-performance, highly device-dense smart homes**

## Next-gen speed

Wi-Fi 6 fully utilizes both 2.4 GHz and 5 GHz bands

1024 QAM to boost throughput to devices by up to 25%

160MHz contiguous channel width for even more bandwidth

Features	Wi-Fi 5	Wi-Fi 6
Supported Wi-Fi Bands	5 GHz	2.4 GHz & 5 GHz
Dual-band maximum combined speed	2600 Mbps	5400 Mbps
MU-MIMO Streams	Downstream - 4 Upstream - 1	Downstream - 4 Upstream - 4
Subcarrier aggregation	OFDM	OFDMA
QAM	256-QAM	1024-QAM (25% higher throughput)
Wireless Encryption	802.11 128 bit AES	Latest Wi-Fi security with 128 bit encryption



## Improved gaming and streaming performance

Wi-Fi 6 introduces 4x longer OFDM symbols, providing much more stability and allowing more data to be transmitted within the same space.

A long OFDM symbol also increases range so your Wi-Fi signal can reach further, especially outdoors.

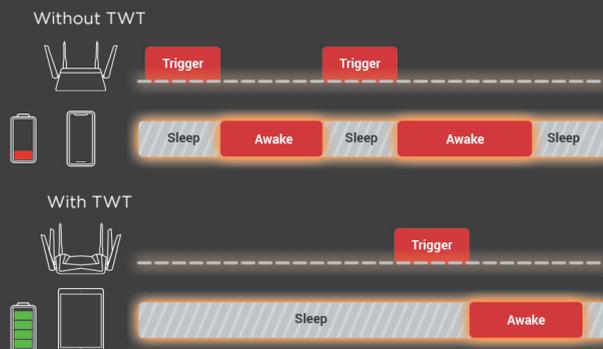
Built-in Power Amplifiers and beamforming extend the reach of your Wi-Fi and direct the signals where they need to go.

**More data - more range**

# Optimise battery and save energy

D-Link's Wi-Fi 6 routers all come with the Target Wake Time feature, which;

- Boosts the battery life for your smart home devices
- Efficiently schedules transmissions to those devices



## Connect more devices

Wi-Fi 6 uses cutting-edge Orthogonal Frequency Division Multiple Access (OFDMA) to split a channel into four sub-channels

Signals from multiple devices get transmitted together in one shot and never have to queue up again

Perfect for smart homes filled with bandwidth-hungry IoT devices threatening to devour Wi-Fi capacity

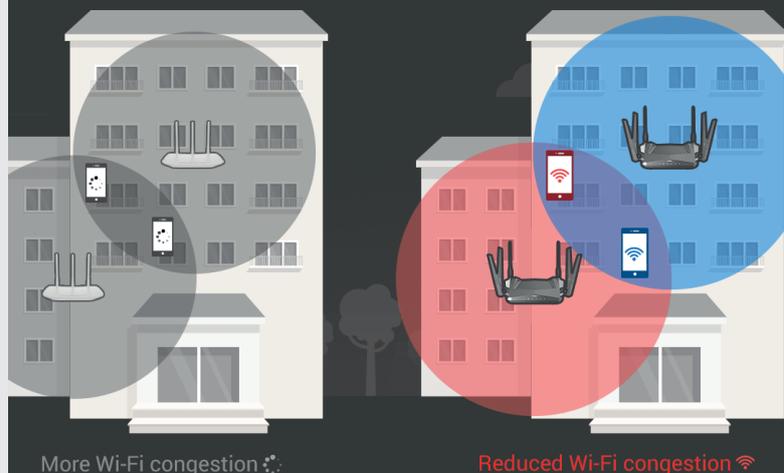


## Less interference = better performance

Wi-Fi 6 puts an end to the Wi-Fi strife with BSS Coloring technology.

It makes transmissions more unique by 'coloring' them with their own unique code.

Devices can decide whether to transmit signals or ignore them, based on their "color".



## Maximum Security

D-Link brings the future of wireless security to Wi-Fi 6 with the latest industry-standard 128-bit encryption

Most advanced security standard available

Ensuring greater privacy throughout users' devices and networks



# DIR-x1560



# DIR-x1860



# DIR-x5460



## EXO AX Wi-Fi 6 Routers

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### Next-Generation Speeds

The latest Wi-Fi 6 technology for blazing-fast Wi-Fi



### Enhanced Parental Controls

Works Assigned devices to profiles for better control over Wi-Fi access



### OFDMA

Increased efficiency and lower latency for small data packets



### MU-MIMO

Sends data to more devices at once



### Extended Coverage

Signals reach further throughout your home



### 128-bit

### 128-bit Wireless Encryption

The latest in Wi-Fi encryption



### Test Internet Speed

Built-in internet test powered by Ookla® to check your connection uplink and downlink speeds



### Voice Control

Works with the Google Assistant and Alexa

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