

# Why choose Simultaneous Dual Band?



**SIMULTANEOUS  
DUAL BAND**

Dual Band Wireless Routers have the capability to transmit on the 5 GHz and 2.4 GHz wireless band.

2.4GHz though more widespread in usage (all 802.11b and g devices run on 2.4GHz only) has only 3 non-overlapping channels for transmission, which are crowded due to a lot of interfering devices- other Wi-Fi access points, microwave ovens, cordless phones, Bluetooth devices, baby monitors, etc. all make for a noisy environment which increase interference and degrade the performance.

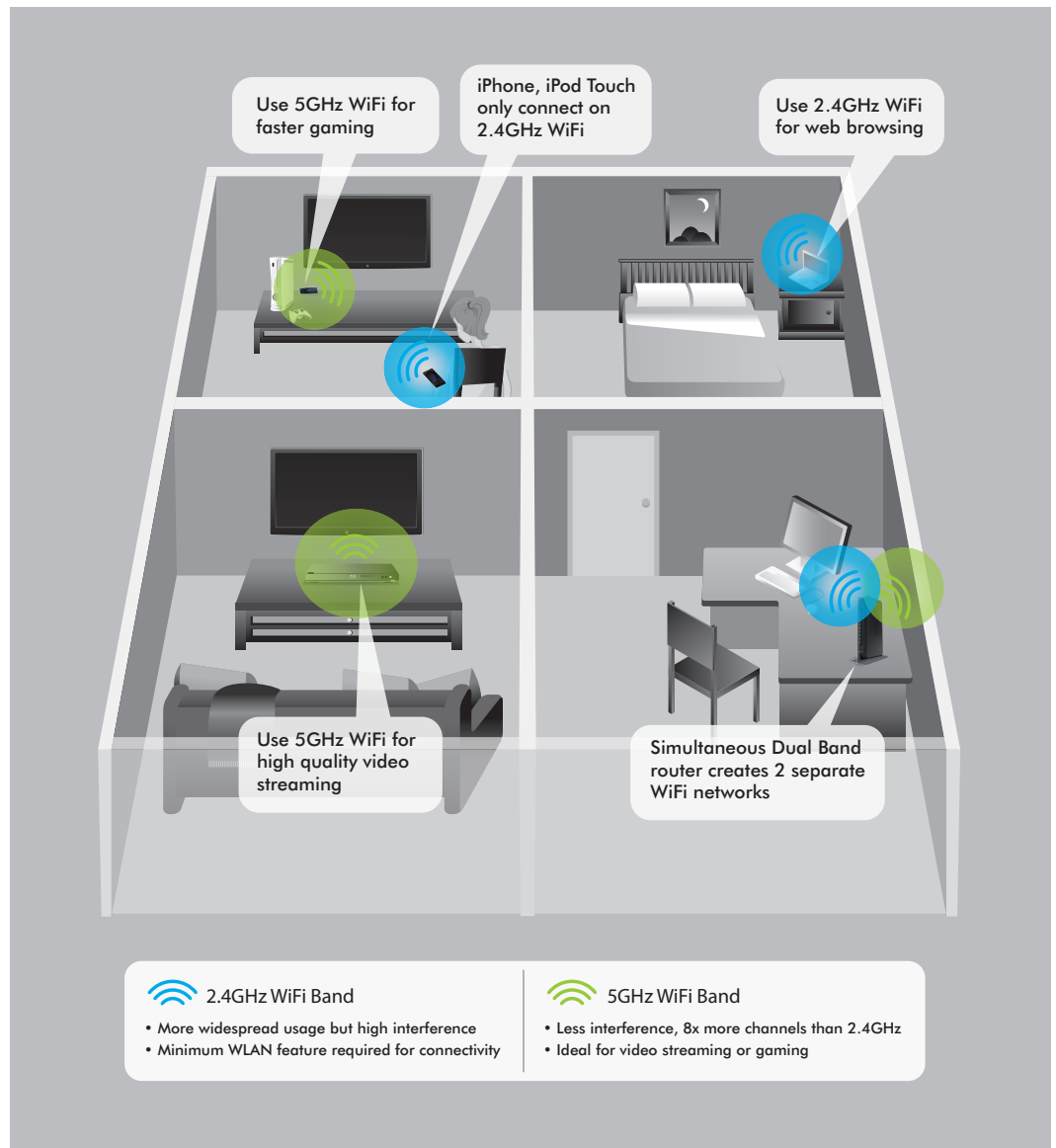
5GHz channel is much cleaner with less interference with 23 non-overlapping channels- 8 times more than 2.4GHz for transmission, which makes it suitable for applications like Video streaming and Gaming which are very sensitive to packet loss and delays.

There are two types of Dual Band Routers in the market: Simultaneous and Selectable Dual Band Routers with very different capabilities and performance:

<b>Simultaneous Dual Band</b>	<b>Selectable Dual Band</b>
Twice the bandwidth	Same bandwidth as single band router
Dedicated Wifi Network for Video and Gaming	Single Wifi network for all devices – No different than single band router
Separate networks avoid interference	Single network is more crowded
Two separate Wifi networks operating simultaneously	Selectable Single Band Wifi network

Simultaneous Dual Band Routers provide the ultimate in flexibility and performance by providing two independent, dedicated networks.

All NETGEAR Dual Band Routers are Simultaneous Dual Band Routers like WNDR3400, WNDR3700/37AV, WNDR3800, DGND3300 and DGND3700.



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