Technical Manual

Checking 5 GHz Wi-Fi compatibility on devices

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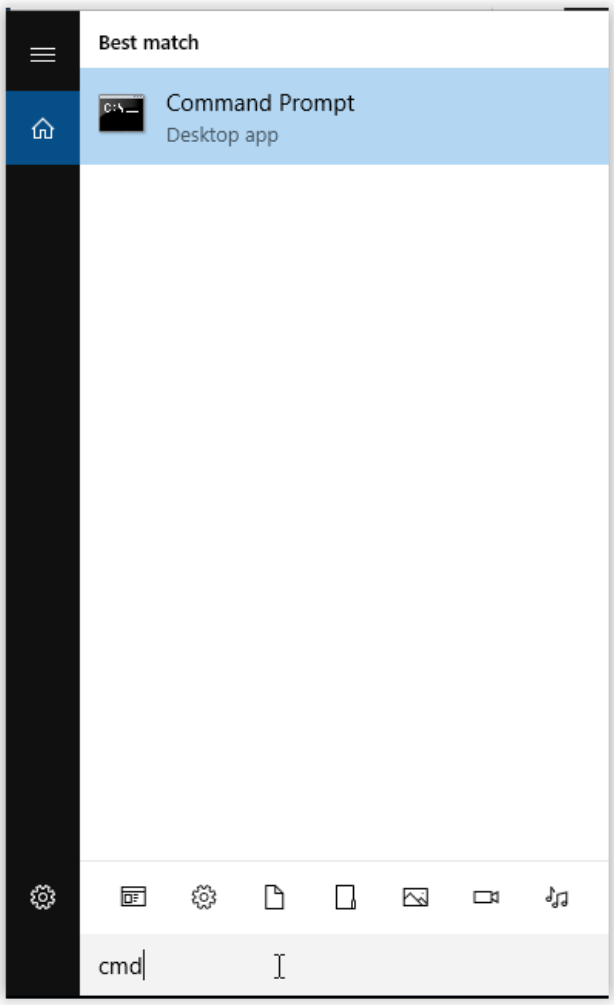
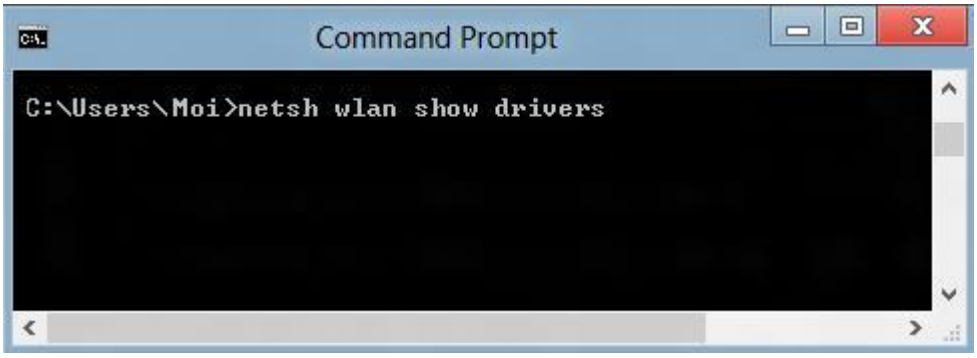
Version	Date	Description	Author
1.0	23-01-2018	Checking 5 GHz Wi-Fi compatibility on devices – Technical Manual	IFEMA Telecommunications Department

To Determine 5 GHz Network Band Capability on Windows:

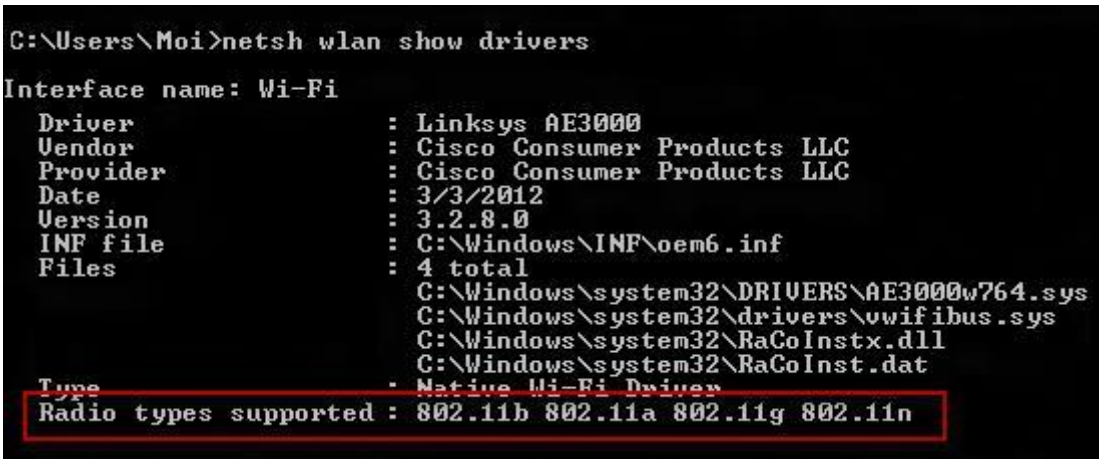
1. Search "**cmd**" in the **Start Menu**.



2. Type "**netsh wlan show drivers**" in the Command Prompt & Press **Enter**.



3. Look for the "**Radio types supported**" section.



Determining Factor:

If the network adapter supports network mode ***802.11ac:***

- The computer supports both 2.4 GHz and 5GHz - your network capability IS Dual-Band Compatible.

If the network adapter supports network mode **802.11n:**

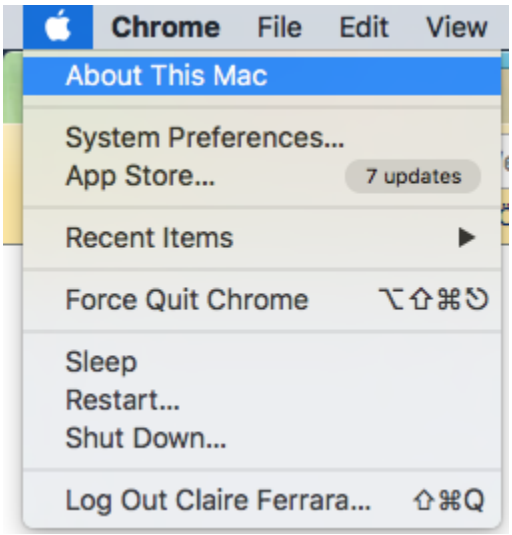
- The computer *MAY OR MAY NOT* have 2.4 GHz and 5GHz network capability and be Dual-Band Compatible.*

If the network adapter does not support either of these network modes, it *IS NOT Dual-Band Compatible*.

* With 802.11n, its capability is unknown, and in order to find out you must attempt to connect to a 5GHz connection. If you are unable to connect, then you cannot use it, but if you are able to, then you can. It has to do with the hardware manufacturer, because they do not specify on 802.11n whether they have included the additional parts needed in the chip to connect to 5GHz. If you want 5GHz compatibility and do not have it, you will need to physically replace your wireless card, get an USB external network adapter, or purchase a new computer.

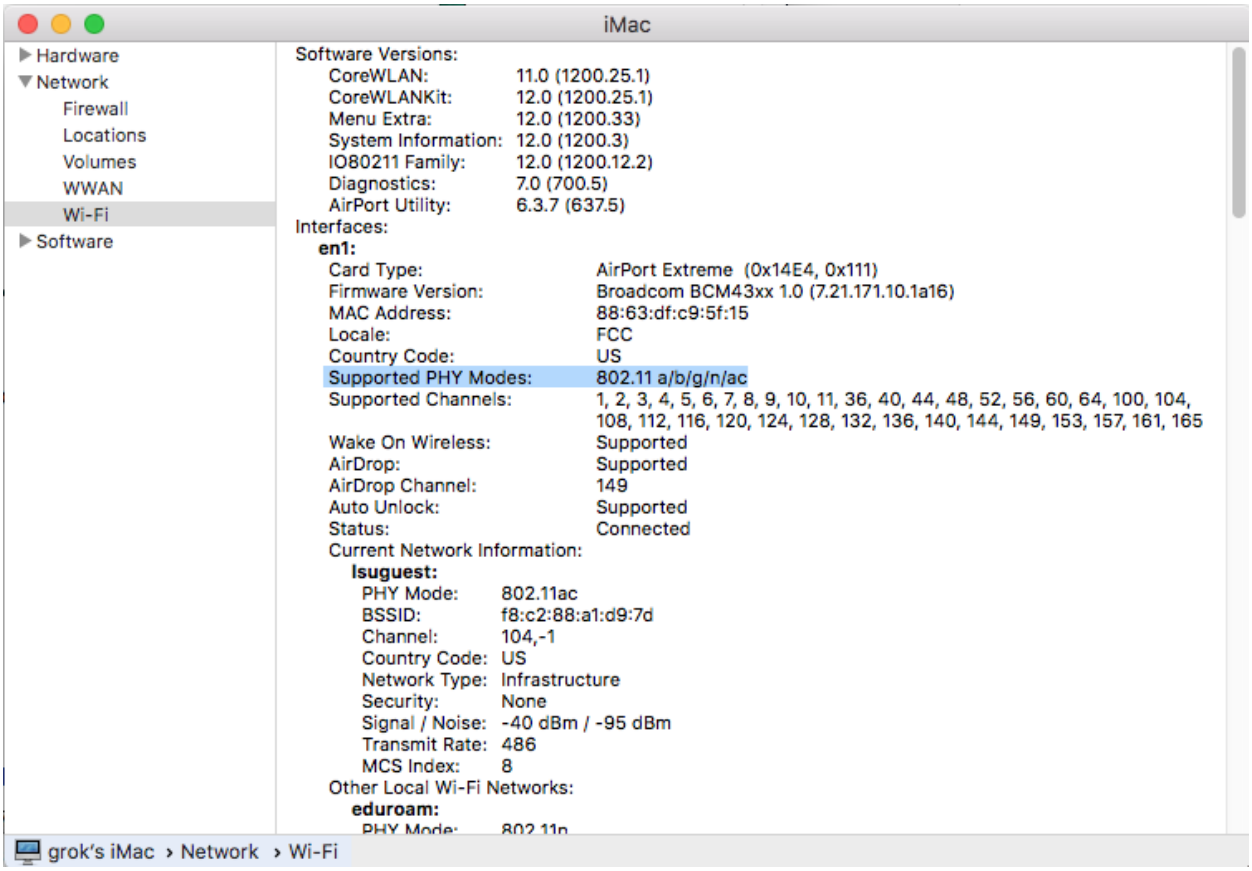
To Determine 5 GHz Network Band Capability Check on a Mac:

1. Click the **Apple icon** located in the top-left portion of the screen and select **About this Mac**.



2. Click **System Report** on the menu displayed.

3. On the Left-hand side column, scroll down options until you see **Network**, then select the **Wi-Fi** option underneath it. Look for the "**Supported PHY Modes:** " selection.

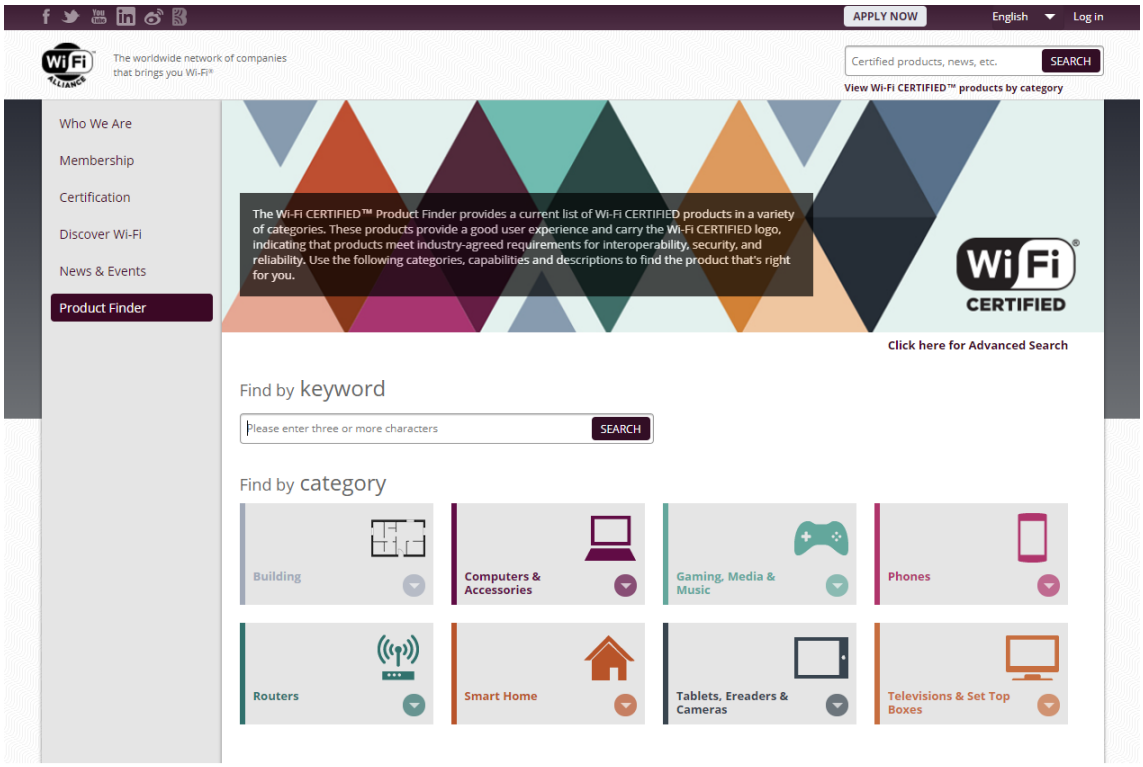


4. **IF...** the computer supports 802.11a/b/g/n/ac Wireless Standards,

   THEN... the computer has the 5 GHz Network Band Capability.

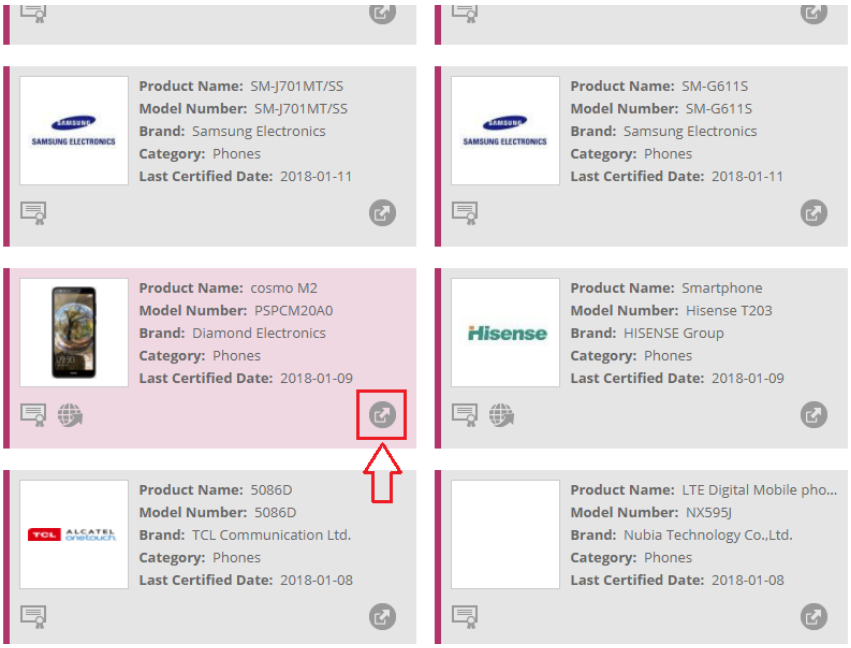
To Determine 5 GHz Network Band Capability Check on Mobile Phones / Tablets:

1. Go to the Wi-Fi Alliance product finder site https://www.wi-fi.org/product-finder



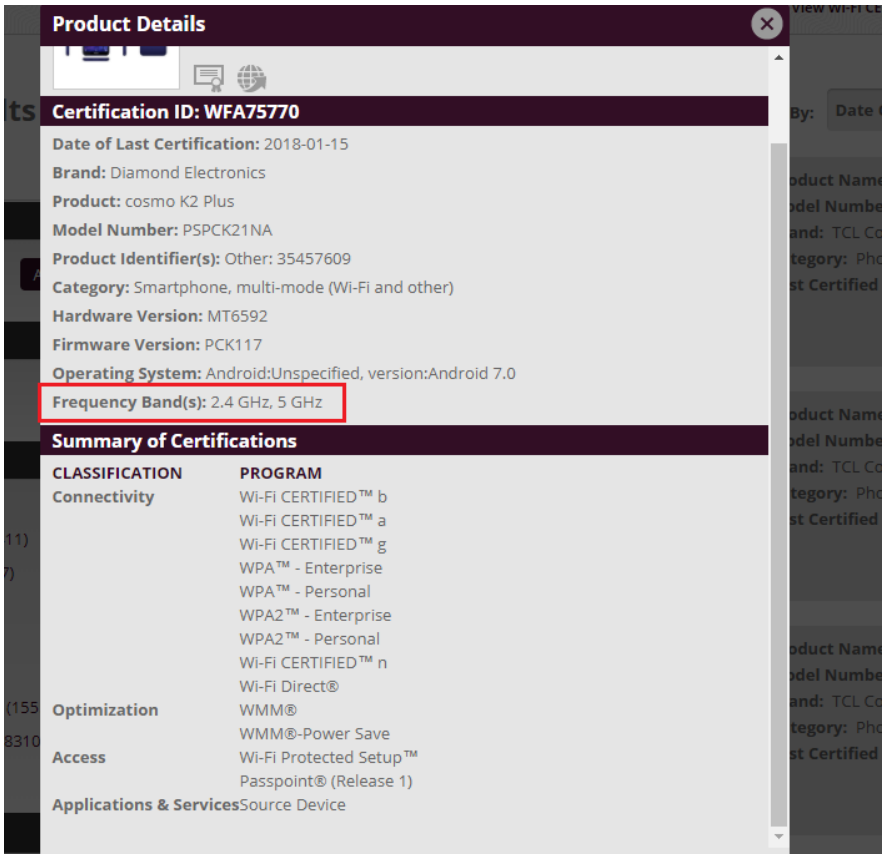
2. Enter the name of your device in the search field and click ‘Search’
3. In the results page, find the exact model of your device.

4. Click squared icon to open the product details screen.



5. Check at the 'Frequency band(s)' section if 5GHz is listed

If listed, your device supports 5 GHz Wi-Fi networks.



List of 5 GHz Wi-Fi Capable Mobile Devices

Here are a few of the devices which support dual-band Wi-Fi.
Note: This list is not current. These days most mobile devices support 5GHz.

Amazon Kindle Fire HD
Amazon Kindle Fire HDX
Apple AirPort Extreme (2009 and later)
Apple computers with Wireless-N support
Apple iPad
Apple iPad 2
Apple iPad 3
Apple iPad 4
Apple iPhone 5 (and later)
Apple TV (2nd and 3rd gen.)
ASUS Nexus 7
BlackBerry PlayBook
Google Nexus 10
HTC Droid DNA
HTC Rezound
HTC Windows Phone 8x
LG Nexus 4, Nexus 5, G2, G3, F60, Optimus (G, L5 II, F7)
Linksys EA-3500 wireless router
Linksys E-4200 wireless router
Linksys EA-4500 wireless router
Microsoft Surface (all models)
Nokia – Lumia 925, 520, 620, 820, 920
PCs with Wireless-N support (most, not all)
Samsung Galaxy Premier
Samsung Galaxy Nexus
Samsung Galaxy Note 10.1
Samsung Galaxy Note II
Samsung Galaxy Tab 3 8
Samsung Galaxy Note 3 (and later models)
Samsung Galaxy S II
Samsung Galaxy S II Skyrocket
Samsung Galaxy S III (and later models)
Samsung Galaxy S III mini
Samsung Galaxy S 4
Samsung Galaxy Tab 10.1 (possibly other sizes as well, but NOT the Galaxy Tab 2)
Samsung Nexus 10
Slingbox 500
Sony – Xperia Z, Z1, Z2, Z3, SP, T

For further information, please contact IFEMA Telecommunications Department

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