

4: 5G Marketing Lingo

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"Meeting Notes"

SUMMARY

Here is a quick, concise summary about 5G marketing terminology at the present time (March 2022):

RF FREQUENCY BAND DESIGNATIONS

Low-Band 5G = Below 1 GigaHertz

(= VHF & UHF TV bands)

Mid-Band 5G = 1 GHz to 6 GHz

(Mid-Band includes 3.7 to 3.98 GHz
= "C band")

High-Band 5G = Above 6 GHz

= "millimeter wave"

T-MOBILE

T-MOBILE "5G"

= "Extended Range 5G"

= Uses low band

= requires cell phones with both
real 5G chipsets
and real 5G antennas

T-MOBILE (continued)

T-MOBILE "5G UC"

= "5G ULTRA CAPACITY"

= 5G using both mid-band
and high band (millimeter wave)

= requires cell phones with both
real 5G chipsets

and real 5G antennas

= more expensive than "T-Mobile 5G"

VERIZON

Verizon "5G"

= "Nationwide 5G"

= 5G in low-band

= requires cell phones with both
real 5G chipsets
and real 5G antennas

VERIZON (continued)

Verizon "5G UW"

= "5G UWB"

= "5G Ultra Wideband"

= 5G using both midband (C-band)
and high-band (millimeterwave)

= requires cell phones with both
real 5G chipsets

and real 5G antennas

= more expensive than "Verizon 5G"

AT&T

May 2019:

AT&T "**5GE**" or "**5G E**"

= "**5G Evolution**"

= claimed slight enhancement to 4G/LTE

= runs fine in 4G cell phones (that do not have 5G chipsets and do not have 5G antennas)

= probably using both low-band and mid-band

= actually slightly slower than the 4G/LTE cellular services from Verizon and T-Mobile

AT&T (continued)

November 2019

AT&T "5G"

= using low-band

= real 5G in "low band"

= requires cell phones with both
real 5G chipsets and real 5G antennas

AT&T (continued)

October 2021

AT&T "5G+"

- = using both midband (C-band) and high band ("millimeter wave")
- = requires cell phones with both real 5G chipsets and real 5G antennas
- = more expensive than "AT&T 5G E" or "AT&T 5G"

REFERENCES

<https://www.wilsonamplifiers.com/blog/frequencies-by-provider/>