



what is the di...



Both 3G and 4G operate on overlapping radio frequency bands within the UHF and microwave spectrum (primarily between 700 MHz and 2.6 GHz). Because they share these frequency bands, there is no distinct "generation" boundary; instead, their electromagnetic wavelengths both fall **between 11 centimeters and 50 centimeters**. [National Institut...](#) +4

Wavelength (λ) is calculated by dividing the speed of light (c) by the frequency (f) using the formula $\lambda = \frac{c}{f}$.



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