



## TECHNICAL NOTE

→ MAX 102

### Max Wireless Base Unit Placement

#### Description

This document details some points to remember when using more than one Max Wireless in the same building.

You are able to have up to 15 working Max Wireless units within a range of 150'. Each base unit must be at least a 2.4GHz (for the WDCT model), 1.8GHz (for the DECT model) wavelength from the next. This length averages from 5" to 6" but the recommended minimum distance is one foot (12").

You can use the below formula to find the wavelength in feet.

$$\text{Wavelength (feet)} = \frac{\text{Speed of Light}}{\text{Frequency (Hertz)}}$$

The average speed of light is 983,319,262.24 feet per second. The Max Wireless WDCT model runs at the 2.4 GHz frequency so the following shows the wavelength in feet.

$$\text{Wavelength (feet)} = \frac{983,319,262.24}{2,400,000,000}$$

$$\text{Wavelength (feet)} = .41 \text{ feet}$$

.41 feet equals 4.92 inches. The DECT models will come to approximately .55 feet which equals 6.6 inches. We recommend a minimum of 12 inches between base units of both models so as not to run into interference issues.

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