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Base station communication distance calculation

Overview

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Here is a simple line of sight calculator that will do the complicated math for you to determine just how far the horizon is from your HT or your base station antenna at any height above level and flat ground (or calm water) on the VHF/UHF ham bands. This calculator assumes nothing is in the way of.

The Radio Distance Calculator simplifies this task, helping engineers, technicians, and hobbyists estimate the coverage distance of a radio signal based on key parameters like transmitter power, antenna gain, frequency, and receiver sensitivity. In this article, you will learn how this calculator.

To simplify, the following charts show how many miles you can usually communicate over normal terrain in suburban or rural areas with different types of radios, power levels, and station configurations. The graphs compare the most commonly available 2-way radios such as ham, CB, FRS, MURS, and.

The formula for calculating radio distance is given by: \ [RD = 3.569 \times \sqrt {H} \] where: \ (H\) is the height of the radio tower in meters. For a radio tower with a height of 100 meters, the radio distance is calculated as follows: \ [RD = 3.569 \times \sqrt {100} = 3.569 \times 10.

The Elevation to Transmit Distance Calculator is a practical tool used to estimate how far a signal can travel from a given elevation, assuming line-of-sight transmission. It is especially useful in radio, microwave communication, satellite ground stations, and even outdoor planning for towers.

An engineered two-way radio system will calculate the coverage of any given base station with an estimate of the reliability of the communication at that range. Two-way systems operating in the VHF and UHF bands, where many land mobile systems operate, rely on line-of-sight propagation for the.

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