

# Communicate with two base stations at the same time



## Overview

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Duplex channel radio systems describe the use of two frequency channels, usually in the same band spectrum, which allows simultaneous communication between two stations. In the typical duplex type of. Base stations serve as the backbone of wireless communication in various networking architectures. They transmit and receive signals, allowing for robust data transfer and connectivity. Their configurations vary widely—from cellular base stations that connect mobile devices to Wi-Fi access points. When setting up a multi-base RTK solution using radios to transmit the RTK corrections, each base station would normally be assigned its own unique radio frequency so rovers can select a base station by tuning in to its frequency. I do this so I can fly the drone and measure GCPs at the same time.

## Communicate with two base stations at the same time

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### Two base stations beside each other

I understand they will have slightly different base coordinates in order to match drone RTK to GCP RTK coordinates. I just want to ensure there will be no interference.

## Base Stations

Backhaul Connection: The backhaul connection links the base station to the core network in the mobile communication system. It provides for the interchange of data between the base station ...



### Multi-base RTK setup with single-frequency radio link

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## What is Radio Base Station in

## Two Way Radio Communication?

Duplex Communication: Two-way radio communication involves duplex communication, which means simultaneous transmission and reception of audio signals. The base station facilitates duplex ...



## dual connectivity in 5g

Dual Connectivity (DC) is a feature in 5G (Fifth Generation) wireless communication networks that enables a user equipment (UE) to simultaneously connect to two different base ...

## Can you have two homebases linked with one system?

You can have two home bases under one account and control both of them in the same app. However, at this point in time the bases do not communicate with one another.



## Operating several base stations on one radio frequency

To operate several base stations on one frequency, you must use receivers that

support the CMR+ or CMRx correction format. Do not use transmission delays if you intend to use radio repeaters.



## Operating several base stations on one radio frequency

In an RTK survey you can reduce the effects of radio interference from other base stations on the same frequency by operating your base station with a different transmission delay. When you use multiple ...



## Two Base Stations: Are They Enough for Your Network Needs?

With two base stations strategically positioned, users can benefit from increased signal strength. This setup helps overcome obstacles and dead zones in larger spaces, allowing for a more ...

## Multi-base RTK setup with

## single-frequency radio link

The data below shows the behavior of a rover in a setup in which two base stations (base #1 and base #2, both using station ID 2001) are transmitting their correction data.



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