

The distance between the mobile base station and the outdoor box



Overview

Please keep some distance (>3m) between the outdoor antenna and the indoor antenna, preferably separate them with a wall in between, and do not install them in the same horizontal level, this is to prevent loop oscillation that will deter the signal amplification. But here's a crucial tip: don't get carried away with putting as much distance as possible between your antennas just for the sake of it. While spacing them out can help reduce interference and improve overall system performance, all cables introduce signal loss—and the longer the cable run, the. This separation between antennas is a straight-line measurement from the closest interior antenna to the exterior antenna. Less separation may be sufficient for less cell signal. Do not power on the booster until the antennas are positioned at an adequate distance from each other. As distance from the antenna decreases, the received power density typically increases. Before you set up a base station, please see Base station operation guidelines.

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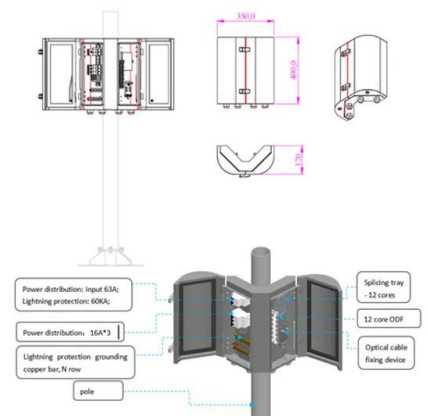


[The Ultimate Guide to Antenna Mounting and Placement](#)

Maximize Separation: You need to create as much vertical and horizontal distance as possible between the outdoor (donor) antenna and the indoor (broadcast) antenna.

[How Much Separation Is Required Between Inside & Outside Antennas?](#)

This separation between antennas is a straight-line measurement from the closest interior antenna to the exterior antenna. Please note that the stronger the outdoor cell signal, the more separation is ...



[Application Note: Distributed Base Stations](#)

The dc voltage feeder cable between the RRU and the transmitter/receiver located at the top of the tower should not require an additional protection module if the RRU dc voltage feeder has been ...

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

...

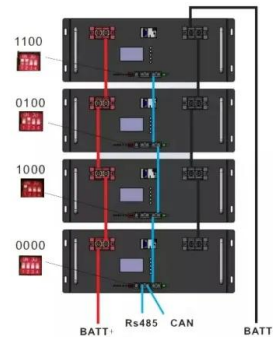


[Showing distance between mobile station and base ...](#)

In this experiment, Verizon was the cellular provider and the location of the base station is shown in Figure 5.

[Mobile Base Station Roles and Radiation vs Distance](#)

Radio signals from a base station propagate through space and are subject to path loss, attenuation, and scattering. As distance from the antenna decreases, the received power density ...



[How to Position and Aim Your External Antenna Correctly](#)

Do not power on the booster until the antennas are positioned at an adequate distance from each other. The external antenna should be oriented toward the nearest base station of your mobile provider, but ...



What Is a Safe Distance from a Cell Tower?

Here's how to tell if you're at a safe distance from a mobile tower. And what to do if you're not.

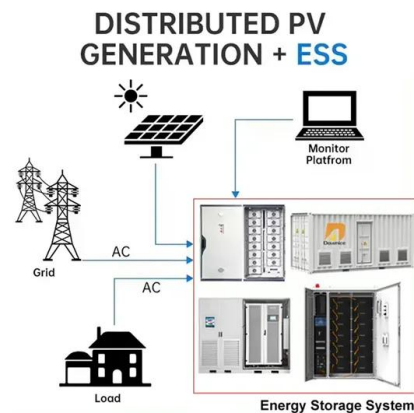


Repeater Installation Guide

Please keep some distance (>3m) between the outdoor antenna and the indoor antenna, preferably separate them with a wall in between, and do not install them in the same horizontal level, this is to ...

Common ways to set up a base station

Use of a T-Bar setup ensures that the base station is set up with exactly the same position and height every day. This helps eliminate the errors typically associated with daily tripod setup. For example, ...



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