

## A-Core Container

# Base station ensures safe communication distance



## Overview

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As distance from the antenna decreases, the received power density typically increases. However, base stations and user devices use power control. When a user device is far from the site, higher transmit power may be required to maintain signal quality; when the device is close, the required.

Base station antennas are installed in such a way that radio-wave exposure in public areas is well below the established safety limits. Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency).

Base stations transmit and receive radio waves to connect the users of mobile phones and other devices to mobile communications networks. The strength of the radio waves from base station antennas reduces rapidly with increasing distance and the levels at locations where the public can be exposed.

A base station (commonly known as a mast) is a transmission and reception station in a fixed location, consisting of one or more receive/transmit antenna and microwave dish mounted on any supporting structure such as mast/tower or building rooftops, connected by cable to electronic (radio).

When it comes to long-range communication, a Base Station CB Radio is the preferred choice for industries like trucking, off-roading, and those in rural areas. These radios provide reliable, clear communication over vast distances, ensuring that users stay connected even in remote locations.

Base station antennas play a fundamental role in wireless communication systems by enabling the signal transmission and reception between the base stations and mobile devices. Base station antennas are also known as cell site antennas and cellular antennas, and they are typically mounted on a tower.

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