

## **PDEOZE PowerContainer**

# **Common base station types in communications engineering**



## Overview

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Macro cell, Micro cell, Pico cell and Femto cell are 4 types of base stations in wireless communication networks. How many types of base stations are there?

Macro cell, Micro cell, Pico cell and Femto cell are 4 types of base stations in wireless communication networks. Macrocell antennas must be properly mounted on ground-based masts, rooftops or other existing structures and at heights for an unhindered, clear view of the surroundings.

What are base station classes?

Base station classes refer to the categorization of base stations into wide area, medium range, and local area types, each defined by specific RF requirements and deployment scenarios, such as minimum distance to devices and power output limits.

What is a base station?

Base stations are one of the widely used components in the field of wireless communication and networks. It is an access point or base point of a particular area for network accessibility. In this article, we will discuss the different types of base stations with their advantages and applications in the real world.

What are the different types of 5G NR base stations?

This article describes the different classes or types of 5G NR Base Stations (BS), including BS Type 1-C, BS Type 1-H, BS Type 1-O, and BS Type 2-O. 5G NR (New Radio) is the latest wireless cellular standard, succeeding LTE/LTE-A. It adheres to 3GPP specifications from Release 15 onwards. In 5G NR, the Base Station (BS) is referred to as a gNB.

What is a communication base station?

In the vast telecommunications network, communication base stations play a frontline role. Positioned closest to end users, they serve as gateways for processing customer requests and managing data flow. In the words of

"Interesting Communication Engineering Drawings," these stations act like "business trackers," always vigilant to:

What are the different types of base stations in 3GPP?

Four different classes of base station are specified in 3GPP covering deployments above the roof-top (wide-area BS), below the roof-top (medium range), hotspot/pico (local area), and in homes. The radio requirements differ between different classes and relate to the intended scenario.

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