

# **How to classify base stations as outdoor and indoor**





## Overview

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What is an outdoor compact base station?

**Outdoor compact base stations** These base stations are designed for installation in any type of outdoor scenario. They offer a high degree of IP protection, which allows them to operate in the most adverse conditions (rain, extreme heat, wind, humidity, saline environments. ) without requiring an additional mechanical cover.

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 is an indoor base station?

**Indoor base stations in rack format** This is the most common type of base station, in which all its components are integrated in a rack-type cabinet, which provides more space for more modules or components. This can enable, for example, redundancy of all components, thereby improving system availability.

What are the different types of base stations?

Some basic types of base stations are as follows: Macro-base stations are tall towers ranging from 50 to 200 feet in height, placed at strategic locations to provide maximum coverage in a given area. Those are equipped with large towers and antennas that transmit and receive radio signals from wireless devices.



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### Annex: Base-Station Site Solutions

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### Base Station Class

o Local Area base stations. This type of base station is intended for pico-cell scenarios, defined with a minimum coupling loss between BS and UE of 45 dB. Typical deployments are indoor ...

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### Types of base station according to propagation environment

Figure 2 shows the types of the base station used in indoor and outdoor and according to the propagation environment. Each type will be described in the following section.

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## Base Stations

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