

An outdoor base station consists of several small





Overview

What is a base station?

Network Coverage: Base stations cover a given part of the earth. Various base stations are set up in such a way that forms a network to encompass all areas of the city, region or even an entire country.

Why do small outdoor base stations have a better performance than rack-mount base stations?

In recent years, technological advances have meant that this base station format has improved its performance in terms of RF power and traffic channels. Thus, by adopting new signal processing techniques such as SDR (Software Defined Radio), small outdoor base stations have been able to match the performance of rack-mount base stations.

What are the components of a base station?

The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices. The block diagram of a base station typically includes the following key components: **Baseband Processor:** The baseband processor too deals with different communication protocols and interfaces with mobile network infrastructure.

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.



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small cell base station

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4 types of Base stations

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Base Stations

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Outdoor components of the base station.



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