

Base station distribution box capacity





Overview

How many base stations should be installed to increase network capacity?

An interesting observation is that the success transmission density increases with the base station density, but the increasing rate diminishes. This means that the number of base stations installed should be more than n -times to increase the network capacity by a factor of n .

Does base station density affect network capacity?

This means that the network capacity linearly increases with the base station density. However, the result can be achieved under a assumption that every cell has saturated traffic. This is unreasonable as the number of base stations increases; some of the small cells do not even have any user to serve.

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.

Why do cellular base stations have backup batteries?

Abstract: Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, the backup batteries of 5G BSs have some spare capacity over time due to the traffic-sensitive characteristic of 5G BS electricity load.



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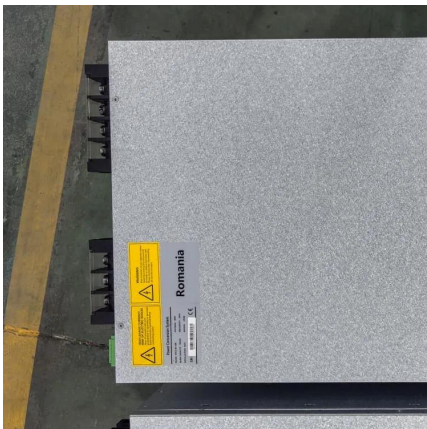


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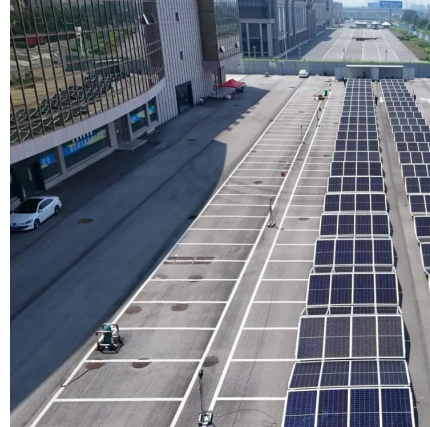


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Basic components of a 5G base station

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Application Note: Distributed Base Stations

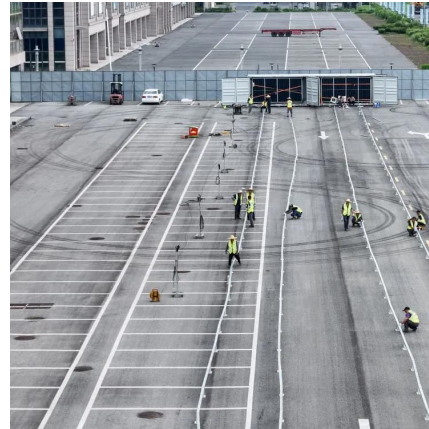
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