

Power supply of 5g communication small base station





Overview

What is a small cell in 5G?

Small cells are a new part of the 5G platform that increase network capacity and speed, while also having a lower deployment cost than macrocells. The compact size of a small cell requires that all components – especially power converters – provide high efficiency, better thermals and eventually the best power density possible.

Will 5G use micro-cells?

Therefore, in 5G networks, high-frequency resources will no longer use macro base stations, micro-cells become the mainstream, and the small base stations will be used as the basic unit for ultra-intensive networking, that is, small base stations dense deployment.

How do small cells fit into the 5G ecosystem?

A cell tower (also called a macrocell) is a huge umbrella used to provide radio signals to thousands of users in large areas with minimal obstructions. To extend the coverage of a macrocell, distributive antenna systems (DASs) are used in conjunction with the cell tower.

Why do small cells need a 5G antenna?

Increasing the frequency increases the speed of sending/ receiving signals and helps shrink the size of the antenna, which in turn shrinks the size of the cell. Shorter wavelengths result in a decrease in signal penetration and radius, reinforcing the need for small cells. How do small cells fit into the 5G ecosystem?



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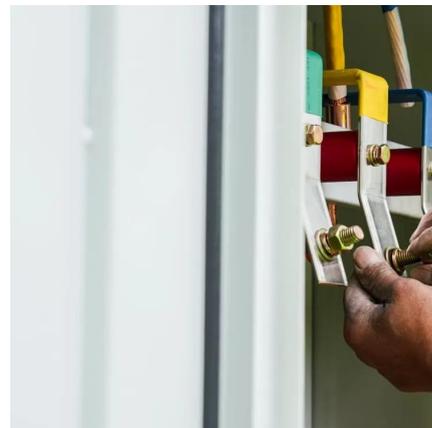
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