

5G base stations can communicate directly





Overview

How does a 5G base station work?

5G base stations operate by using multiple input and multiple output (MIMO) antennas to send and receive more data simultaneously compared to previous generations of mobile networks. They are designed to handle the increased data traffic and provide higher speeds by operating in higher frequency bands, such as the millimeter-wave spectrum.

Why do 5G base stations use MIMO & beamforming?

Both are critical for ensuring seamless communication between different network elements. 5G base stations often use Massive Multiple Input Multiple Output (MIMO) technology and beamforming to enhance spectral efficiency and coverage. Massive MIMO involves using a large number of antennas to communicate with multiple devices simultaneously.

What are the different types of 5G base stations?

From the perspective of equipment architecture, 5G base stations can be divided into different architectures such as BBU-AAU, CU-DU-AAU, BBU-RRU-Antenna, CU-DU-RRU-Antenna, and integrated gNB.

What is 5G base station architecture?

5G base station architecture is characterized by its flexibility, virtualization, and the ability to support diverse services through network slicing. The separation of CU and DU, along with the introduction of cloud-based technologies, allows for more efficient resource utilization and scalability.



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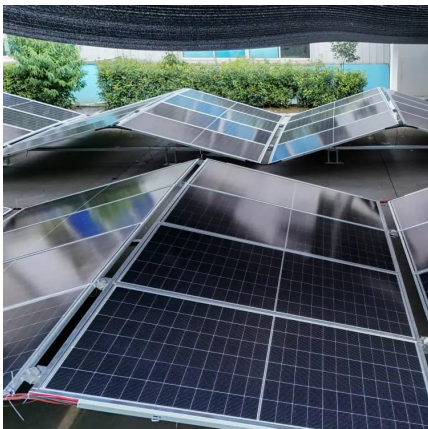
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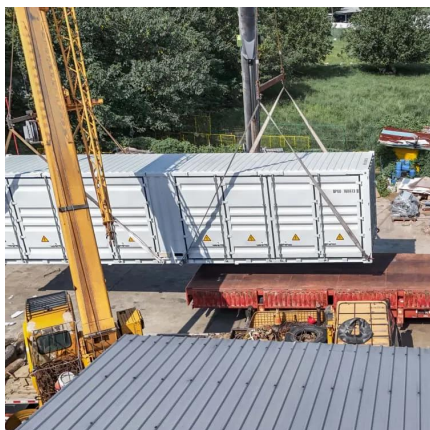
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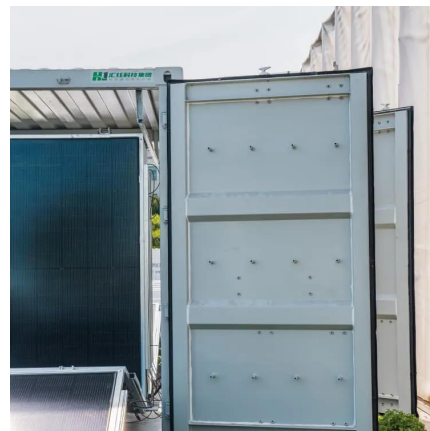


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