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5g base station electric control box environment



Overview

What is a 5G Brain Center?

Often referred to as the brain center, this includes: Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System.

How to evaluate a 5G energy-optimised network?

To properly examine an energy-optimised network, it is very crucial to select the most suitable EE metric for 5G networks. EE is the ratio of transmitted bits for every joule of energy expended. Therefore, while measuring it, different perspectives need to be considered such as from the network or user's point of view.

What is a 5G cellular network?

5G cellular network operates on a millimetre wave spectrum i.e., between 28GHz-60GHz along with LTE. Certain unlicensed frequencies such as 3.5 GHz, 3.6 GHz and 26 GHz are also being explored for fulfilling demands of high throughput and capacity [4, 5, 6].

Can a 5G network reduce energy consumption?

Notably, China, Korea, and the US are vigorously engaged in this field, specifically related to the 5G network. This review paper identifies the possible potential solutions for reducing the energy consumption of the networks and discusses the challenges so that more accurate and valid measures could be designed for future research.

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