

370 Communication Green Base Station Function





Overview

What is a green base station solution?

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. Using SDR-based architecture and distributed base stations is a different approach to traditional multiband multimode network construction.

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What should a base station do in a wireless communications network?

In a wireless communications network, the base station should maintain high-quality coverage. It should also have the potential for upgrade or evolution. As network traffic increases, power consumption increases proportionally to the number of base stations. However, reducing the number of base stations may degrade network quality.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

How much power does a base station use?

In the old network, one base station used three cabinets for GSM900, GSM1800, and UMTS2100 devices. Its overall power consumption was 4280 W.



After the old base station was swapped with SDR, UMTS900 system was included and power consumption decreased by 57%.

What are the components of a base station?

Power Supply: The power source provides the electrical energy to base station elements. It often features auxiliary power supply mechanisms that guarantee operation in case of lost or interrupted electricity, during blackouts. **Baseband Processor:** The baseband processor is responsible for the processing of the digital signals.



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Energy-Efficient Base Stations , part of Green Communications

This chapter aims a providing a survey on the Base Stations functions and architectures, their energy consumption at component level, their possible improvements and the major problems ...

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Page 43 Gigaset E370 / LUG IM-Ost en / A31008-M2815-R601-1-TK19 / extending.fm / 9/18/17 Multiple handsets Registering a handset to multiple base stations Your handset can be ...

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Analysis of Satellite Communication Log data for Malaysia Airlines

After extensive analysis, the following explanations have emerged. The 1825 Log-On Request had a non-zero BER and could therefore have been logged at the Ground station with a BFO ...

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Stochastic Electromagnetic Near-Field Green's Functions for ...

The present paper is based on the synergistic approach to electromagnetics and communications outlined in [2] and involve using



Green's functions to describe interactions and correlation ...

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What Is the Role of a Base Station in Wireless Communication?

Base stations are critical components in wireless communication networks, serving as the intermediary between mobile devices and the core network. They play a vital role in ...

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