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# Lte base station power supply





## Overview

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What is a LTE power consumption model?

The model by Auer et al. described in , was developed as part of the EARTH (Energy Aware Radio and neTwork tecHnologies) project. It is based on measurements of LTE hardware. Most notably, the model proposes a linear increase of power consumption with the output power (or load) of the base station.

What are base station models?

The base station models vary in their approaches and potential use cases. Hereafter, the models are grouped according to these aspects. Main component models only model the power consumption of the main base station components (power amplifier, analog frontend, baseband unit, active cooling, power supply) separately.

What are the main components of a base station Power model?

The main components are the baseband processing unit, analog frontend, power amplifier, and power supply as well as active cooling. As the main components are common to most of the models, they can be easily combined to form a new model. Most of the base station power models are based on measurements of LTE (4G) hardware or theoretical assumptions.

What is 3GPP base station model?

The central specification body of cellular networks, the 3GPP, presents a base station model to facilitate energy efficiency improvements for 3GPP Release 18 in . It is based on the user equipment power model of the 3GPP in structure, presentation, and approach.



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[5G Base Station Power Supply System: NextG Power's ...](#)

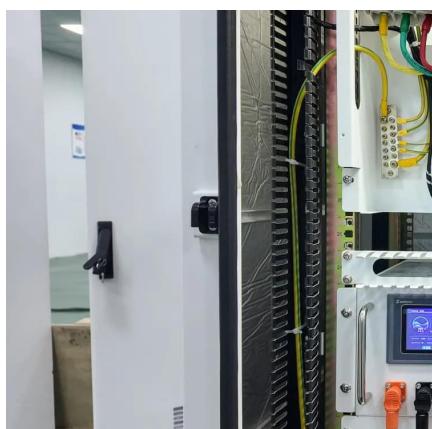
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Introduction Modern communication systems demand high data capacity and high speed. The long-term evolution (LTE) standard for the fourth-generation (4G) and the fifth ...

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Building better power supplies for 5G base stations  
Authored by: Alessandro Pevere, and Francesco Di Domenico, both at Infineon Technologies

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[Flexible power modeling of LTE base stations](#)

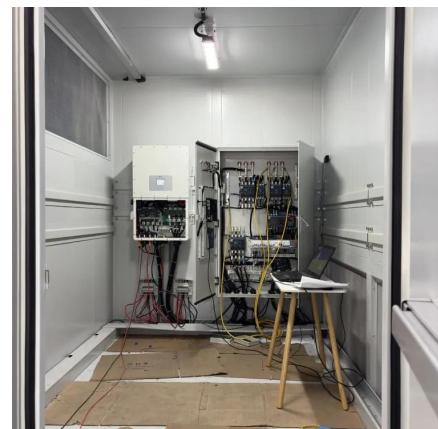
The model is based on a combination of base station components and sub-components as well as power scaling rules energy is depending on a given amount of data to ...

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#### **Comparison of Power Consumption Models for 5G Cellular Network Base**

The work in [26] presents an assessment of the environmental impacts associated with mobile networks in Germany. Power consumption models for base stations are briefly ...

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#### [5G macro base station power supply design strategy and ...](#)

For macro base stations, Cheng Wentao of Infineon gave some suggestions on the optimization of primary and secondary power supplies. "In terms of primary power supply, we ...

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