

What are the power supplies for Albania s 5G communication base stations





Overview

How will mmWave based 5G affect PA & PSU designs?

Site-selection considerations also are driving changes to the PA and PSU designs. The higher the frequency, the shorter the signals travel, which means mmWave-based 5G will require a much higher density of small cells compared to 4G. Many 5G sites will also need to be close to street level, where people are.

What are the key requirements for 5G infrastructure?

From the trends and challenges mentioned above, we can derive three key general requirements for the 5G infrastructure: • High efficiency. Achieving high efficiency is the best way to reduce heat dissipation (due to high power consumption compared to 4G) and operational expenses (OPEX). • Re-use of existing infrastructure.

How does a 5G base station reduce OPEX?

This technique reduces opex by putting a base station into a “sleep mode,” with only the essentials remaining powered on. Pulse power leverages 5G base stations’ ability to analyze traffic loads. In 4G, radios are always on, even when traffic levels don’t warrant it, such as transmitting reference signals to detect users in the middle of the night.



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Thus, telecom sites must be accurately re-designed, starting from the power supply units (PSUs), which will be replaced by new ones with higher output power and typically higher ...



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