

Kongres Container

Communication base station hybrid energy amplifier



Overview

Why is a base station power amplifier important?

The proliferating frequency bands and modulation schemes of modern cellular networks make it increasingly important that base-station power amplifiers offer the right combination of output power, efficiency and multi-band support – at both peak and average power levels. PAs are the main energy consumers in modern base stations.

Do base stations need smart power management?

The imperative here is to operate base stations that can flexibly adjust to traffic demand. Certainly, the transition to and deployment of 5G communications has an inherent requirement for adoption of smart power management in the underlying hardware.

What is a beamforming integrated circuit (BFIC)?

This architecture requires beamforming integrated circuits (BFICs) integrating four to 32 complete RF chains. These RF chains contain PAs, LNAs, filters, switches and phase shifters and several technology platforms are suitable for these functions.

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