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Title: Production of 5G wireless communication small base stations

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How big is the 5G base station market?

Macro cells represented USD 22.9 billion and 61.3% of the 2024 5G base station market share, providing umbrella coverage and mobility anchor services. Yet small cells are forecast to expand at a 29.4% CAGR, pushing their slice of the 5G base station market size toward USD 50 billion by 2030.

What is 5G & how does it affect a communication system?

The construction of the 5G network in the communication system can potentially change future life and is one of the most cutting-edge engineering fields today. The 5G base station is the core equipment of the 5G network, and the performance of the base station directly affects the deployment of the 5G network.

What is 5G base station equipment architecture?

The 5G base station equipment architecture mainly adopts the BBU +AAU method. The BBU is the baseband part and can be further divided into two logical network elements,CU and DU. The CU handles the protocol stack functions above the PDCP layer of the wireless network,while the DU handles radio protocol functions below the PDCP layer.

Are 5G base stations able to respond to demand?

5G base stations have experienced rapid growth,making their demand response capability non-negligible. However,the collaborative optimization of the distribution network and 5G base stations is challenging due to the complex coupling,competing interests,and information asymmetry among different stakeholders.

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