

## A-Core Container

# How big is the 5G base station power supply market



## Overview

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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.

How much power does a 5G base station use?

Each nation has a different 5G strategy. For 5G, China uses 3.5GHz as the frequency. Then, a 5G base station resembles a 4G system, but it's on a much larger scale. For sub-6GHz in 5G, let's say you have a macro base station. The power levels at the antenna range from 40 watts, 80 watts or 100 watts.

Who are 5G base stations suppliers?

Suppliers of 5G base stations were benefited from the rapid development of 5G technology. Huawei, Ericsson, Nokia, ZTE, and Samsung are among the world's leading suppliers. In 2024, these five vendors control almost 96.12 % of the global market. China has installed around 12 times as many 5G base stations as the United States.

Which 5G base station segment has the biggest market share in 2024?

In 2024, the segment with more than 25 GHz had the biggest market share, followed by the segment with 8GHz to 25GHz. More spectrum is needed to deliver a consistent 5G grade service over the long term, which is boosting demand for the 8GHZ to 25GHZ frequency band. Asia Pacific dominated the global 5G base station market in 2024.

Which companies are partnering with 5G in 2025?

January 2025: Nokia secured a USD 2.3 billion contract with Bharti Airtel for 5G radio access across 17 Indian states. December 2024: Ericsson announced a partnership with Microsoft to pair Azure Edge Zones with 5G base stations for

ultra-low-latency industrial use cases.

How will India's 2024 spectrum auctions impact the 5G market?

India's 2024 spectrum auctions unlocked capital from Bharti Airtel and Reliance Jio, with first-wave deployments in twenty-three cities during 2025 and rural extensions scheduled by 2027. Local semiconductor clusters in Taiwan and South Korea anchor component supply, reinforcing the region's influence on the global 5G base station market.

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