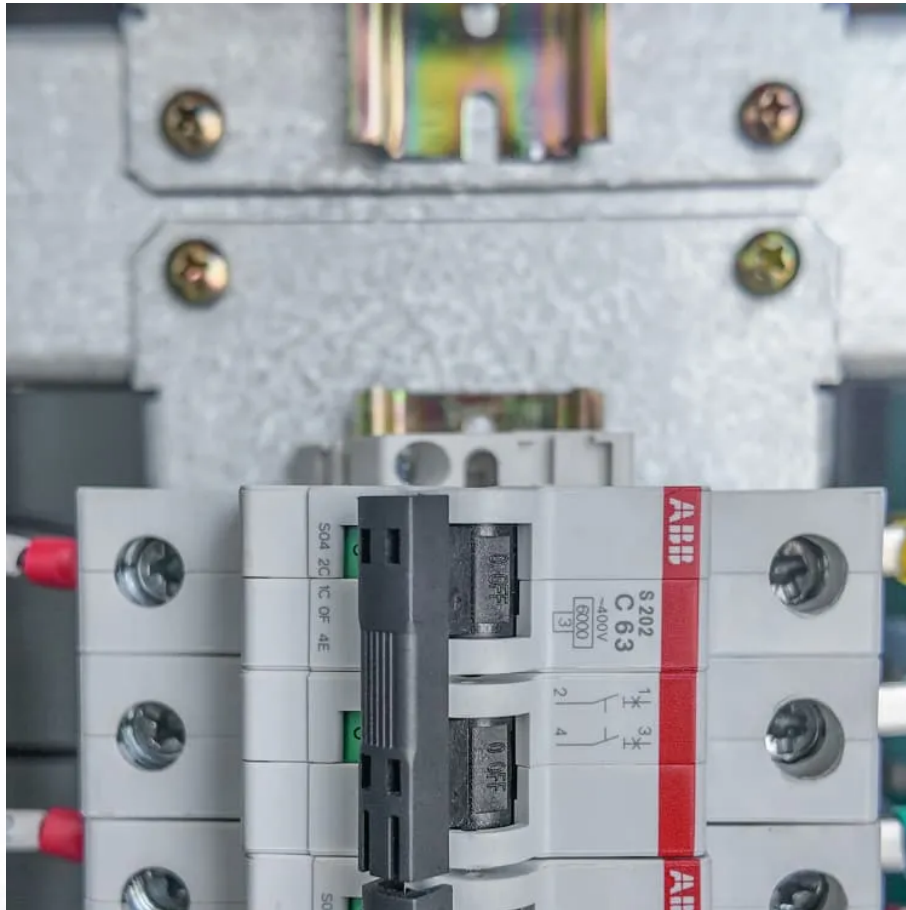


## PDEOZE PowerContainer

# 5G base station electricity industry



## 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.

Who are the major players in the 5G base station market?

The major players in the market are Airspan Network, Cisco Systems Inc., Ericsson, Huawei technologies co. Ltd., Qualcomm Technologies, Inc., Samsung, Marvell, NEC Corporation, Nokia Corporation, and ZTE corporation amongst others are a few major companies operating in the 5G Base Station Market.

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.

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.

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.

Will 4G base stations be upgraded to non-standalone 5G?

Upgrading 4G base stations by software to non-standalone (NSA) 5G will still require hardware changes. It will act as an interim, but it will still not satisfy the need for true 5G network architecture. The number of base stations needed increases with each generation of mobile technology to support higher levels of data traffic.

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