



# How much does a 5g base station cost in China Communications





## Overview

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Will China build a 5G base station next year?

Technicians from China Mobile check a 5G base station in Tongling, Anhui province. [Photo by Guo Shining/For China Daily] China aims to build over 4.5 million 5G base stations next year and give more policy as well as financial support to foster industries that can define the next decade, the country's top industry regulator said on Friday.

How much does a 5G base station cost?

Setting up a 5G base station is expensive, with costs ranging from \$100,000 to \$200,000 per site. This price includes hardware, installation, site rental, and maintenance. Urban areas often have higher costs due to land prices and infrastructure challenges.

Who is the most important buyer of 5G base station equipment?

In short, CMCC is the most important buyer of base station equipment in the world. It is therefore highly significant that in its latest round of tenders for 5G base station equipment in the 2.6 GHz frequency range, China Mobile decided to award 16.33% of the order volume to Ericsson (Sweden) and 10.28% to Nokia (Finland).

How much power does a 5G base station use?

The power consumption of a 5G base station is three times that of its 4G LTE predecessor, according to Zhengmao Li, growing from 4 kW to 6 kW up to 12 kW to 16 kW. It is important to consider that power consumption is about 20 % of MNO OPEX.



## How much does a 5g base station cost in China Communications



### How much does it cost and how long does it take to build a complete 5g

To summarize, it costs about 450,000 dollars to build a complete 5G base station!

### China's 5G Story: Inspiring Rollout Journey and Ongoing Challenges

In 2022, Chinese telcos and China Tower built approximately 887,000 5G base stations, at an infrastructure cost of over RMB 180 billion (USD 26 billion), accounting for 43% ...



### [China's 5G Story: Inspiring Rollout Journey and ...](#)

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Moreover, according to China Mobile's 2020 capital expenditure budget, each 5G base station costs an average of nearly CNY 400,000 (about USD 57,000 or EUR 53,000)<sup>17</sup>.



## 5G in China

Find the most up-to-date statistics and facts about the 5G technology development in China.

### [5G Infrastructure Costs: What Telcos Are Paying](#) . [PatentPC](#)

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### [Ericsson and Nokia 5G Base Station volume and massive](#)

CMCC has the world's largest mobile network and in 2023, capital expenditures for its 5G network are estimated to be approximately RMB83.0 billion (\$11.6 billion USD, EUR1.4 billion).

## The Mobile Economy China 2024



China Telecom's co-construction and sharing of 5G base stations reduces carbon emissions by more than 10 million tonnes each year, while its AI energy-saving platform reduces energy ...



### [Ambitious 5G base station plan for 2025](#)

China aims to build over 4.5 million 5G base stations next year and give more policy as well as financial support to foster industries that ...

### **5G Base Stations \$13,000 in China**

Most carriers don't order 200,000 5G base stations, so they will pay more, but that's the actual price for the joint procurement of China Telecom and China Unicom. The 200,000 ...



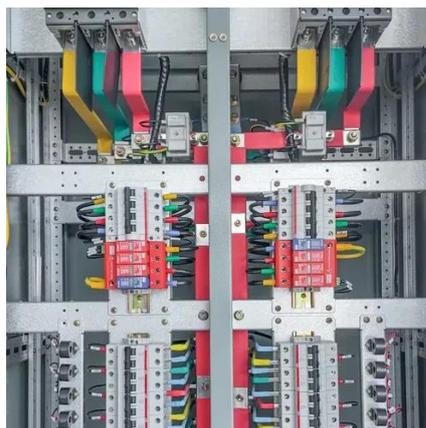
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### [Ambitious 5G base station plan for 2025](#)



China aims to build over 4.5 million 5G base stations next year and give more policy as well as financial support to foster industries that can define the next decade, the country's ...



### **How much does it cost to build a 5G base station? The total ...**

If you add all these together, excluding rent and labor, if you build a new 5G macro base station, it will cost about 300,000 yuan. If you include rent and labor, the average cost is estimated to be ...



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