

Why are there so few 5G base stations





Overview

How many 5G base stations are there in China?

With 4.19 million 5G base stations already operational across China, the MIIT emphasized that “promoting 5G revolution and 6G innovation will be one of the priorities” for 2025, according to a report by Chinese newspaper China Daily. Chinese main operators are China Mobile, China Telecom and China Unicom.

How many 5G base stations will China Mobile have in 2025?

China Mobile, the world’s largest mobile carrier in terms of subscribers, had previously outlined plans to deploy 340,000 additional 5G base stations in 2025. With these new 5G deployments, China Mobile’s total 5G base stations will reach nearly 2.8 million by the end of 2025.

How many 5G sites are there in China?

Mobile operators in China are ramping up 5G and 5G-A rollouts, with the former now at 4.5 million cell sites and the latter in 300 cities; a new 2027 roadmap will see 75% of mobile data in the country on 5G networks. 5G on 5M sites – China has over 4.486 million 5G sites; 5G now comprises more than 35% of total mobile base stations.

What is a 5G base station?

They help fill coverage gaps, improve network reliability, and handle high data traffic. In cities, more than 60% of 5G base stations are small cells, placed on rooftops, lampposts, and building facades. These mini base stations are crucial for delivering consistent 5G speeds in crowded areas like stadiums, shopping malls, and business districts.



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[China has more than 3.8 million 5G base stations](#)

Jun 28, 2024 · China's 5G base stations account for 60 percent of the global total, Zhao added. In China, more than half of all mobile phone users are 5G users, Zhao told MWC Shanghai. ...

[Number of 5G base stations in selected markets](#)

Sep 10, 2025 · With more than 4 million base stations by Q4 2024, China has built the world's largest #5G network--about 12x the EU and 30x the US, while India ranked second.



China 5G rush - 4.5m 5G base stations, 300 5G-A cities, 75% 5G ...

Jun 27, 2025 · Mobile operators in China are ramping up 5G and 5G-A rollouts, with the former now at 4.5 million cell sites and the latter in 300 cities; a new 2027 roadmap will see 75% of ...



[Optimal configuration of 5G base station energy storage](#)

Mar 17, 2022 · Presently, there are relatively few studies on the energy storage configuration of 5G base stations. Reference [14] proposed a plan for transforming the power supply of the ...



[China to construct over 4.5 million 5G base stations in 2025](#)

Jan 2, 2025 · China plans to construct over 4.5 million 5G base stations in 2025 while introducing additional policy and financial incentives to support industries expected to shape the next ...

[Base Stations - IEEE ComSoc Technology Blog](#)

Aug 7, 2020 · The total number of 5G base stations must be dozens of times more than that of 4G to achieve high-speed coverage. 02 Why does 5G need so many base stations? Why do we ...



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