

Communication 5g base station number query





Overview

How many 5G base stations are there in China?

2027 master plan – a second ‘Set Sail’ 5G expansion plan aims for 85% 5G penetration and 75% of network traffic on 5G. The total number of 5G base stations in China reached 4.486 million as of the end of May (2025), according to data released by the country’s Ministry of Industry and Information Technology (MIIT).

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.

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.

Why do we need a 5G base station?

The limited penetration capability of millimeter waves necessitates the deployment of significantly more 5G base stations (the next generation Node B, gNB) than their 4G counterparts to ensure network coverage . Notably, the power consumption of a gNB is very high, up to 3–4 times of the power consumption of a 4G base stations (BSs).



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[Modeling information and communication interaction in 5G ...](#)

Oct 1, 2025 · The research focuses on the processes of information and communication interaction between a set of subscribers and a base station in a 5G cluster. We...

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

Jun 26, 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. ...



[Base Station and Population Coverage](#)

Oct 30, 2025 · Number of base stations deployed and coverage of market population worldwide. Includes summaries and data tables for BTS and NodeB and population coverage.

[Modeling and aggregated control of large-scale 5G base stations ...](#)

Mar 1, 2024 · A significant number of 5G base stations (gNBs) and their backup energy storage systems (BESSs) are redundantly configured, possessing surplus capacit...



[Worldwide: 5G base stations in selected ...](#)

Nov 27, 2025 · Comparison of the number of 5G base stations in the European Union (EU) and selected countries worldwide in 2024 [Graph], ...



[China home to 4 million 5G base stations](#)

Sep 25, 2024 · The number of 5G base stations in China exceeded 4.04 million at the end of August, data from the Ministry of Industry and Information Technology showed Wednesday.



[China 5G base station count continues](#)

Dec 13, 2024 · The market leader deployed 351,000 5G base stations in H1, taking its total to 2.3 million at end-June. Data from China's Ministry of Industry and Information Technology ...



[Worldwide: 5G base stations in selected markets. Statista](#)

Nov 27, 2025 · Comparison of the number of 5G base stations in the European Union (EU) and selected countries worldwide in 2024 [Graph], European 5G Observatory, June 30, 2024.

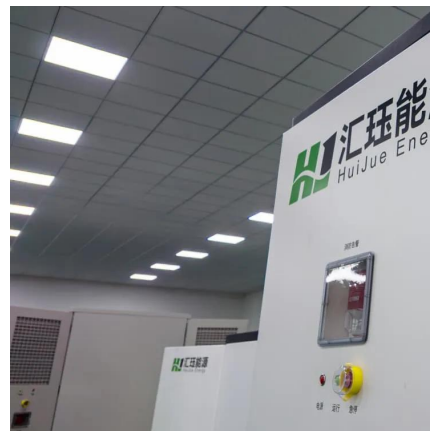


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[Base station location determination model based on 5G ...](#)

Sep 25, 2022 · Based on the rapid development of 5G networks, the wider the bandwidth, the more limited the coverage. The problem of site selection is becoming more and more ...



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