

# **China Communications 5G Micro Base Station**





## Overview

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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 much carbon does a 5G base station produce?

Previous research has estimated that a single 5G base station will produce approximately 30.2 ~ 33.5 tCO<sub>2</sub> eq throughout its life cycle (Ding et al., 2022; Guo et al., 2022a). Consequently, the carbon emissions from 5G base stations in China in 2021 amounted to approximately 49.2 MtCO<sub>2</sub> eq.

Why are micro base stations important in 5G planning?

Micro base stations, on the other hand, are smaller and more flexible, allowing them to supplement the peripheral communication that cannot be covered by macro stations, thereby improving communication quality and capacity. Therefore, micro stations play a critical role in 5G planning.

What is 5G base station equipment architecture?

The 5G base station equipment architecture mainly adopts the BBU + AAU method. The BBU is the baseband part and can be further divided into two logical network elements, CU and DU. The CU handles the protocol stack functions above the PDCP layer of the wireless network, while the DU handles radio protocol functions below the PDCP layer.



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### [China Telecom Builds First 5G Micro Base Station Using](#)

Feb 3, 2023 · The 5G micro base station market will produce more suppliers to provide support for basic technology such as chips and software systems, Beijing New Energy Consulting said.

### [China home to nearly 4.65 million 5G base stations](#)

BEIJING, Sept. 23 -- The number of 5G base stations in China has reached nearly 4.65 million by the end of August, official data showed Tuesday. The figure accounted for 36.3 percent of the ...



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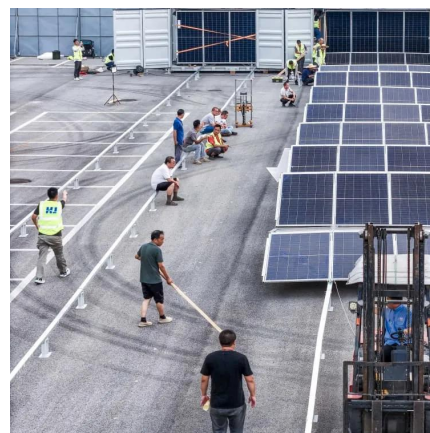
### [China to construct over 4.5 million 5G base stations in 2025](#)

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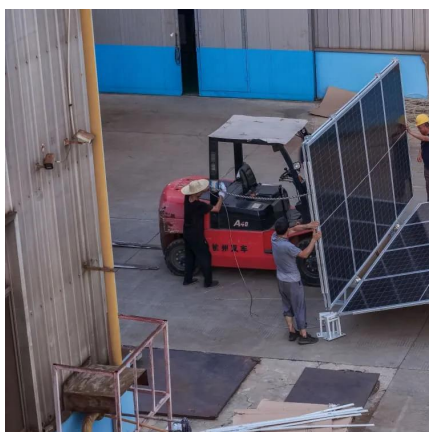
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