

# **Future mobile communications will not require base stations**





## Overview

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The sixth-generation (6G) technology of mobile networks will establish new standards to fulfill unreachable performance requirements by fifth-generation (5G) mobile networks. This is due to the high req.

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.

What is the next generation of mobile wireless communication?

The next generation of mobile wireless communication, 6G, is already intensely discussed within the ICT industry and in academia. Countries and regions have initiated large research projects, and plans are being made for the standardization of this next generation.

Do aerial base stations provide reliable coverage in far-flung areas?

Contextually, we focus on one of the most promising solutions to provide sufficient and reliable coverage in far-flung areas: aerial base stations (ABSs), which consist of unmanned aerial vehicles (UAVs) carrying cellular BS equipment.

How mobile communication devices will increase in the future?

For instance, in addition to phones, it is estimated that the density of mobile communication devices will increase. These can be wearable devices, integrated headsets, and implantable sensors. Each new device requires a certain system to communicate as well as several environmental conditions depending on where it is used.



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Aerial Base Stations for Global Connectivity: Is It a Feasible ...

Aug 25, 2023 · Even though achieving global connectivity represents one of the main goals of 5G and beyond wireless networks, exurban areas are still suffering frequent outages because of ...

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The Future of Base Station Design: Trends and Innovations ...

Aug 22, 2025 · The Future of Base Station Design: Trends and Innovations to Watch In the past decade, the telecommunications industry has undergone a rapid transformation driven by ...

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Communication Base Station Innovation Trends , HuiJue ...

Rethinking Infrastructure for the 5G-Advanced Era As global mobile data traffic surges 35% annually, communication base stations face unprecedented demands. Can traditional tower ...

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Understanding Base Stations in Mobile Communication

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Ambitious 5G base station plan for 2025

Nov 23, 2025 · 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 ...

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5G: A new future for Mobile Network Operators, or not?

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5G Base Station Chips: Driving Future Connectivity by 2025

Nov 27, 2024 · The Role of 5G Base Station Chips 5G base station chips are the lifeblood of base stations, which are pivotal in transmitting high-speed data across vast networks. These chips ...

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6G spectrum

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5G, 6G, and Beyond: Recent advances and future ...

Sep 28, 2023 · For mode selection, communication can be operated in two possible modes: communication among devices and communication between users and base stations. Users ...

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6G Mobile Communication Technology: Requirements, ...



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