

Base station and wireless communication method





Overview

Why are base stations important?

Base stations are the backbone of wireless communication networks, playing a pivotal role in signal transmission, network reliability, and high-speed data connectivity. As technology evolves, the importance of base stations will continue to grow, addressing new challenges and supporting the ever-expanding demand for wireless communication services.

What is a base station in a cellular network?

It acts as the intermediary between the mobile device and the broader telecommunications network, facilitating both data transfer and voice communication. In cellular networks, a base station typically consists of antennas, a transmitter/receiver system, and a base station controller (BSC).

What is a wireless base station?

A base station represents an access point for a wireless device to communicate within its coverage area. It usually connects the device to other networks or devices through a dedicated high bandwidth wire of fiber optic connection. Base stations typically have a transceiver, capable of sending and receiving wireless signals;.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.



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WO/2025/083871 RELAY DEVICE, BASE STATION, AND WIRELESS COMMUNICATION
Oct 20, 2023 · 1. WO2025083871 - RELAY DEVICE, BASE STATION, AND WIRELESS
COMMUNICATION METHOD Publication Number WO/2025/083871 Publication Date ...

NLoS Localization with Single Base Station Based on Radio ...
1 day ago · Accurate outdoor localization in Non-Line-of-Sight (NLoS) environments remains a
critical challenge for wireless communication and sensing systems. Existing methods, ...

Wireless Communication Base Station Location Selection ...
Jun 9, 2024 · Abstract: Base station location selection and network optimization are critical to
improving the performance of wireless communication networks in terms of latency reduction. ...

WO/2023/168572 BASE STATION AND WIRELESS COMMUNICATION METHODS ...
Jul 3, 2022 · A base station and wireless communication methods of inter-cell coordination
signaling reduction for cross link interference (CLI) mitigation in dynamic time division duplex ...

Base Stations
Jul 23, 2025 · Wireless Communication: Base stations play a fundamental role in establishing
and supporting wireless connectivity with mobile devices within their range. Network Coverage: ...

Base Stations
Jul 23, 2025 · Wireless Communication: Base stations play a fundamental role in establishing
and supporting wireless connectivity with mobile ...

WO/2025/227297 WIRELESS COMMUNICATION METHOD, WIRELESS COMMUNICATION
Apr 28, 2024 · Embodiments of the present application provide a wireless communication
method, a wireless communication device, a wireless communication system, a base station, and a
...

TERMINAL, WIRELESS COMMUNICATION METHOD, ...
Sep 13, 2023 · (54) TERMINAL, WIRELESS COMMUNICATION METHOD, AND BASE STATION (57)
To appropriately update a beam in relation to BFR. A terminal according to one aspect of ...

WIRELESS COMMUNICATION SYSTEM, BASE STATION, MOBILE STATION, AND METHOD
A base station includes a memory and a processor coupled to the memory and configured to
transmit, when a state transition of a mobile station is performed, a first control signal to the ...

BASE STATION AND COMMUNICATION METHOD
FIELD OF THE INVENTION The present invention relates to a base station and a communication
method in a wireless communication system. BACKGROUND OF THE INVENTION Regarding ...



Understanding Base Stations: The Backbone of Wireless Communication

Jan 6, 2025 · Conclusion Base stations are the backbone of modern wireless communication networks. They ensure that mobile devices can connect to the internet, make calls, and send ...

What Is the Role of a Base Station in Wireless Communication?

Jun 27, 2025 · Base stations are the backbone of wireless communication networks, playing a pivotal role in signal transmission, network reliability, and high-speed data connectivity. As ...

WIRELESS BASE STATION AND WIRELESS COMMUNICATION METHOD ...

Mar 20, 2019 · WIRELESS BASE STATION AND WIRELESS COMMUNICATION METHOD - Patent 3457795[0004] As a technique for efficiently forming many cells in the related art, a ...

WO/2025/027836 TERMINAL, BASE STATION, WIRELESS COMMUNICATION ...

1. WO2025027836 - TERMINAL, BASE STATION, WIRELESS COMMUNICATION SYSTEM, AND WIRELESS COMMUNICATION METHOD Publication Number WO/2025/027836 ...

WIRELESS COMMUNICATION APPARATUS AND METHOD, BASE STATION...

A base station for a non-orthogonal multiple access communication system, the base station comprising: wireless communication circuitry configured to dynamically adjust transmission ...

WO/2025/243907 TERMINAL, WIRELESS COMMUNICATION METHOD, AND BASE STATION

May 14, 2025 · 1. WO2025243907 - TERMINAL, WIRELESS COMMUNICATION METHOD, AND BASE STATION Publication Number WO/2025/243907 Publication Date 27.11.2025 ...

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