

Mobile communication without base station





Overview

Do mobile phones need a base station?

Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible.

Why are base stations an inevitability?

These types of objects are an inevitability since they serve the purpose of providing signal transfer for data and voice between mobile mobiles. The idea of base stations is anchored in their function to provide coverage, capacity, and connectivity, hence allowing for extending the working capabilities of mobile phones and other radio gear.

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.

How does mobile communication work?

To understand how mobile communication works, let's explore its main building blocks: a. Mobile Station (MS) Your mobile phone or smartphone. Contains a transceiver (transmitter + receiver), antenna, and a SIM card for user identity. b. Base Transceiver Station (BTS) Also called a cell tower. Handles radio communication with the mobile phone.



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[Base Station Switch off Methods for Mobile Communication without](#)

Base Station Switch off Methods for Mobile Communication without Effecting QoS. International Journal of Intelligent Systems and Applications in Engineering, 12 (4), 4277-4289.

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[Base stations and networks](#)

Base Stations Enable Mobile Communications
Antennas Are Placed in Various Locations
More Mobile Devices Means More Base Stations
Base Station Output Power Is Low
Exposure Limits Are Set by Independent Organizations
Exposure Levels Are Much Lower

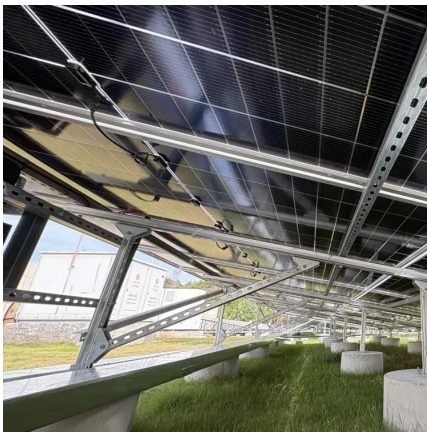


Than The LimitsPublic Access Is Restricted Where NeededNo Adverse Health Effects According to The WhoMobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible. Radio waves have been used for communica See more on ericsson Engineers Edge



Cell Phones without base stations , Engineering News

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