

Advantages and disadvantages of communication base stations

Why do we need more base stations?

We will find more base stations where there is greater demand for networks. Cellular networks are the backbone of modern wireless communications, enabling the use of mobile telephony, mobile internet, and other data services.

Why are base stations important in cellular communication?

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

What are the properties of a base station?

Here are some essential properties: **Capacity:** Capacity of a base station is its capability to handle a given number of simultaneous connections or users. **Coverage Area:** The coverage area of a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

What is a signal transmission & reception base station?

Signal Transmission and Reception Base stations use antennas mounted on cell towers to send and receive radio signals to and from mobile devices within their coverage area. This communication enables users to make voice calls, send texts, and access data services, connecting them to the wider world.

Why do operators need more base stations in high-demand areas?

To meet this demand, operators must install more base stations. More base stations in high-demand areas help to: **Improving network coverage:** More base stations mean better coverage and fewer dead zones, which is crucial for ensuring reliable communications.

Is living near a base station harmful?

Additionally, living near base stations is not harmful and can actually improve the signal quality and reduce the energy emissions of devices. In summary, BTSs are an essential part of the wireless infrastructure, essential for the functioning of modern devices and services.

In general, the characteristics of GPRS wireless communication technology are: fast transmission rate, long transmission distance, and simple networking. However, due to the limitation of base ...

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