

Communication Small base station communication distance





Overview

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.

What is a small cell base station?

Small Cells: Small cells are low-powered base stations designed for very short-range coverage. They are typically used in areas with high data traffic, such as urban centers or densely populated neighborhoods. Small cells help offload traffic from larger macro base stations and improve network performance.

What is a small-cell base station (SBS) antenna?

To address the growing demand, 5G technology is being implemented at a larger scale. Small-cell Base Station (SBS) antennas are crucial for exploring the full potential of 5G networks by expanding the network in urban areas, densely populated regions, indoor environments, and low-coverage zones.

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).



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