

SolarInnovate Energy Solutions

Advantages and Disadvantages of Wireless Outdoor Base Station



Overview

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 is a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

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 are the benefits of wireless networks?

Mobility: One of the most important benefits gained from wireless networks is user mobility support. Any user with portable handsets can move freely within the coverage area and avail uninterrupted service. Consider the case of cellular mobile telephone systems in which the entire coverage area is divided into several non-overlapping cells.

What are the advantages of wireless communication?

Owing to the multiple advantages provided by these systems, the customer base is increasing exponentially. Wireless communication can be implemented using different technologies. Some of the popular choices are infrared and radio frequency. Infrared technology is implemented by transmitting infrared light as a diffused beam or direct beam.

How wireless communication systems are changing the customer base?

Different frequency allotment techniques will be explained and finally,

popularly employed wireless communication systems will be introduced with their standards. Wireless communication systems have witnessed rapid increase in customer base with more and more subscribers shifting their service from wired counterparts.

Why do we need a base station?

Technological advancements: The New technologies result in evolved base stations that support upgrades and enhancements such as 4G, 5G and beyond, its providing faster speeds with better bandwidth. Emergency services: They provide access to emergency services, so that in case of emergency, people can call through their mobile phones.

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