

Outdoor base station construction cost





Overview

How to optimize base station layout?

Moreover, we propose a dynamically adjusted quantum genetic algorithm (DAQGA) to optimize base station layout, with coverage and construction cost as objective functions. A signal reception strength metric is introduced to evaluate the effectiveness of the optimal layout.

What is the minimum height of a base station?

The base station height must be higher than the surrounding low- to mid-rise buildings to ensure optimal signal coverage, excluding high-rise buildings. Therefore, the minimum height of the base station is set to the average height of the surrounding low- to mid-rise buildings. $(13) h_{mea} \leq h_{surf} \leq 40$.

Why are base stations important?

As critical nodes in wireless network connectivity, base stations, if not deployed with foresight and scientific planning, may not only lead to resource wastage, but also cause signal interference, directly affecting network coverage, signal quality, and user experience, thereby increasing the complexity of network management and operational costs.

What is the minimum distance between a base station?

To prevent interference, the minimum distance between any two stations is set at 250 meters. Each base station has a coverage radius of 170 meters. Most areas are covered. However, areas with very dense buildings and areas beyond the coverage are not covered.



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