



Outdoor base station price calculation

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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 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. What is a cost objective function in base station deployment? In base station deployment, this section introduces a cost objective function and a coverage objective function. It also details the factors contributing to the construction cost of base stations and explains how area coverage is estimated based on the number of people served.

3.1.1. Cost objective function

How does base station coverage optimization work? Therefore, the base station coverage optimization method proposed in this paper effectively mirrors real-world scenarios, visually exposes signal blind spots, and accurately identifies instances where users cannot connect to base stations due to complex environmental factors such as high-rise obstructions or areas beyond the coverage range. Fig. 9. How does a base station deployment method optimize the base station layout? The base station deployment method proposed in this study dynamically optimizes the base station layout based on annual environmental change characteristics. 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. $(13) h_{min} \leq h_{surf} \leq 40$

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