



How much does a 5G base station cost in South Africa





Overview

How much does a 5G base station cost?

Setting up a 5G base station is expensive, with costs ranging from \$100,000 to \$200,000 per site. This price includes hardware, installation, site rental, and maintenance. Urban areas often have higher costs due to land prices and infrastructure challenges.

Does South Africa have a 5G market?

The South African 5G market has entered “a dynamic growth phase,” with major telecommunications operators, including MTN and Vodacom, spearheading the rapid expansion of 5G coverage across the country. By the end of 2024, over 50% of the population had access to 5G networks, according to a report by ICT market research firm Africa Analysis.

How much does SA 5G cost?

However, transitioning from non-standalone (NSA) 5G to SA 5G comes with a hefty price tag—between \$1 billion and \$3 billion per operator. Unlike NSA 5G, which relies on existing 4G infrastructure, SA 5G requires a brand-new core network. This includes cloud-based architecture, advanced data centers, and software-defined networking.

Which companies are deploying 5G in South Africa?

Major telecom operators like Vodacom, MTN, and Rain have been rolling out 5G services across various cities 1 .)As to SA 5G networks, the deployment is still in the early stages. Most of the current 5G networks in South Africa are non-standalone (NSA), which means they rely on existing 4G infrastructure for certain functions.



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Implementation of 5G projects in South Africa has faced several challenges. One of the primary issues is the high cost of ...

South Africa 5G Infrastructure Market Size and Forecasts 2030

Building and upgrading 5G networks require significant investment in infrastructure such as base stations, fiber optic backhaul, and spectrum acquisition, which can be a barrier for operators ...



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The South Africa 5G base station market is poised for robust growth over the coming years, driven by accelerating demand for high-speed connectivity and digital ...

[Africa 5G Base Station Market Size, Competitors & Forecast](#)

The 5G base station market is expected to grow significantly in the coming years, as 5G networks are deployed in more countries and regions. This



growth is driven by the increasing demand ...



[5G adoption accelerates in South Africa as coverage and ...](#)

Andre Wills, director at Africa Analysis, attributed this surge to the declining cost of 5G-enabled devices and aggressive infrastructure rollouts by telecom giants.

Africa 5G Base Station Market (2025)

Historical Data and Forecast of Africa 5G Base Station Market Revenues & Volume By Macro Base Station for the Period 2021 - 2031 Historical Data and Forecast of South Africa 5G Base ...



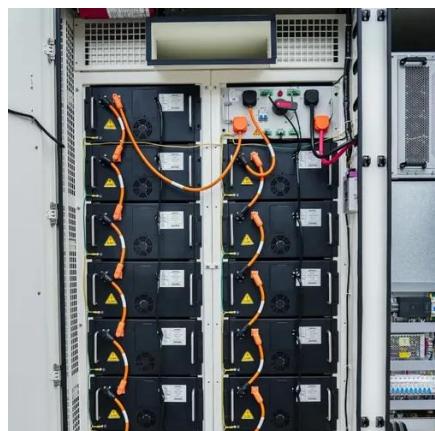
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Implementation of 5G projects in South Africa has faced several challenges. One of the primary issues is the high cost of infrastructure, which includes the need for extensive ...



[5G Base Station Construction Market in South Africa](#)

The global 5G base station construction market is expected to grow with a CAGR of 25.7% from 2025 to 2031. The 5G base station construction market in South Africa is also forecasted to ...



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Building and upgrading 5G networks require significant investment in infrastructure such as base stations, fiber optic backhaul, and spectrum ...



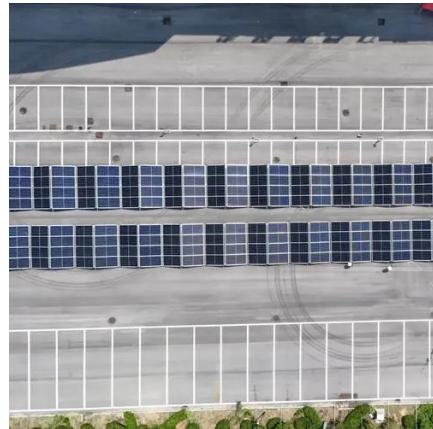
An Economic Feasibility Model for Sustainable 5G Networks in ...

Telecommunication base stations (BS) are extremely expensive, running into thousands of USD. Beyond the cost element, it also takes several months for the necessary ...



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