

Cambodia Tower Communication Base Station



Overview

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Key Takeaways

Cambodia's communication base stations are primarily operated by mobile network providers and TowerCos, supporting GSM, UMTS, 4G, and emerging 5G networks, with regulatory oversight ensuring safe and efficient deployment. Overview of Telecommunications Infrastructure

Cambodia's telecommunications sector includes mobile, internet, radio, and television services, regulated by the Ministry of Posts and Telecommunications. Mobile networks have expanded rapidly, with over 21 million mobile connections as of 2020 and projected growth to 24.3 million by 2025, including 1.6 million 5G connections. Operators like Smart Axiata have conducted 5G trials, while 4G remains the dominant network technology.

Tower Operators and Technologies



Cambodia Advance Communications Co. Ltd, identified by MCC 456 and MNC 3, operates in Cambodia supporting GSM 1800 and UMTS 2100 technologies . Towers are typically monopole, lattice, guyed, or stealth/concealed, and can be ground-based or rooftop installations . Operator-owned towers accounted for nearly 50% of the market in 2025, while independent TowerCos are growing rapidly, providing multi-tenant sites for network densification and 5G upgrades .

Market and Growth

The Cambodia telecom tower market was valued at USD 134.7 million in 2025 and is projected to reach USD 159.06 million by 2031, growing at a CAGR of 2.81% . Growth is driven by rising smartphone adoption, a young tech-savvy population, and government incentives. Renewable-powered and hybrid grid-diesel towers are increasingly adopted, reducing operational risks and supporting environmental commitments .

Regulatory Requirements

The Ministry of Land Management, Urban Planning and Construction issued Instruction No. 001 (June 2025) to guide the construction of telecommunications infrastructure in residential, commercial, industrial, and special economic zones . Key requirements include:

- Antenna tower stations: minimum area of 2.25-12 sqm depending on location type.
- In-building solutions (IBS): at least 12 sqm reserved for equipment in commercial or co-owned buildings.
- Telecommunications cable networks: must support mobile and fiber-to-the-home (FTTH) services and allow switching between ISPs without new installations.
- Cooperation with operators is required to ensure compliance with technical and safety standards .

Summary

Cambodia's communication base stations are a mix of operator-owned and independent towers, supporting GSM, UMTS, 4G, and emerging 5G networks. The market is expanding steadily, with regulatory frameworks ensuring safe, efficient, and environmentally friendly deployment. Ground-based towers dominate, but rooftop and renewable-powered solutions are increasing, reflecting the country's push toward digitalization and sustainable telecom infrastructure .

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Each antenna is connected to the base station by several cables. Monopole towers have a conduit down the center to

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Cambodia telecoms market report

This report provides a comprehensive overview of Cambodia's telecoms market, including KPIs, data on subscribers, and more.

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[Cambodia Telecom Market: 2034 Growth Drivers & Forecasts](#)

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BTS (base station transceiver)

BTS, or Base Station Transceiver, is a critical component in modern mobile communication networks. BTS is

Types of Cell Phone Towers with 5 examples for mobile communication ...

Types of cell towers including their components and functions used in mobile communication networks scribe 5 examples of cell

Cambodia Communications 2024, CIA World Factbook

Cambodia Communications 2024, CIA World Factbook NOTE: The information regarding Cambodia on this page is re-published

How Cell Towers Work to Keep Your Networks Connected - NI

Cell towers consist of various components such as antennas, base transceiver stations, masts, and ground-based

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

