



**SolarTech Power Solutions**

# **China-Africa Communication Equipment Micro Base Station**



## Overview

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What equipment does a micro base station use?

The AAU of the micro base station adopts the Remote Radio Unit (RRU) and antennas (Simic, 2007). Equipment parameters vary by manufacturers (Yu et al., 2021). Data from four manufacturers (see Table S2) were collected to measure their uncertainty through Monte Carlo simulation.

Why do Chinese telecom companies have a presence in Africa?

Africa needs the modernisation, development and integration of its ICT sector. Chinese tele- com companies' presence in Africa indicates new actors' growing interests in Africa's ICT as they gain new markets, finance and build ICT infrastructure across the continent.

What are macro & micro base stations?

Macro and micro base stations are currently being deployed for 5G network. The base station is categorized into micro base station, macro base station, and sub-system based on the coverage range. Micro base stations are being deployed to increase coverage.

How much power does a micro base station use?

The power consumption of a single macro base station is approximately 5 kW, whereas a Pico Cell requires only about 10 W (Bolla et al., 2012; Deruyck et al., 2014; Hu & Yi, 2014). Deploying multiple micro base stations to cover the blind spots of a macro base station will reduce power consumption during operation, thereby reducing carbon emissions.

What role does China play in Africa's digitalisation?

38 Arcesati, Rebecca. 2021. "China's evolving role in Africa's digitalisation: from building infrastructure to shaping ecosystems." Italian Institute for International Political Studies (ISPI) Commentary. 29 July 2021.

## Should Chinese telecom companies invest in the ICT sector in Africa?

Chinese telecom companies possess strategic advantages when investing in the ICT sector in Africa, including political and financial support from China's central government which enables them to offer competitive prices.

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