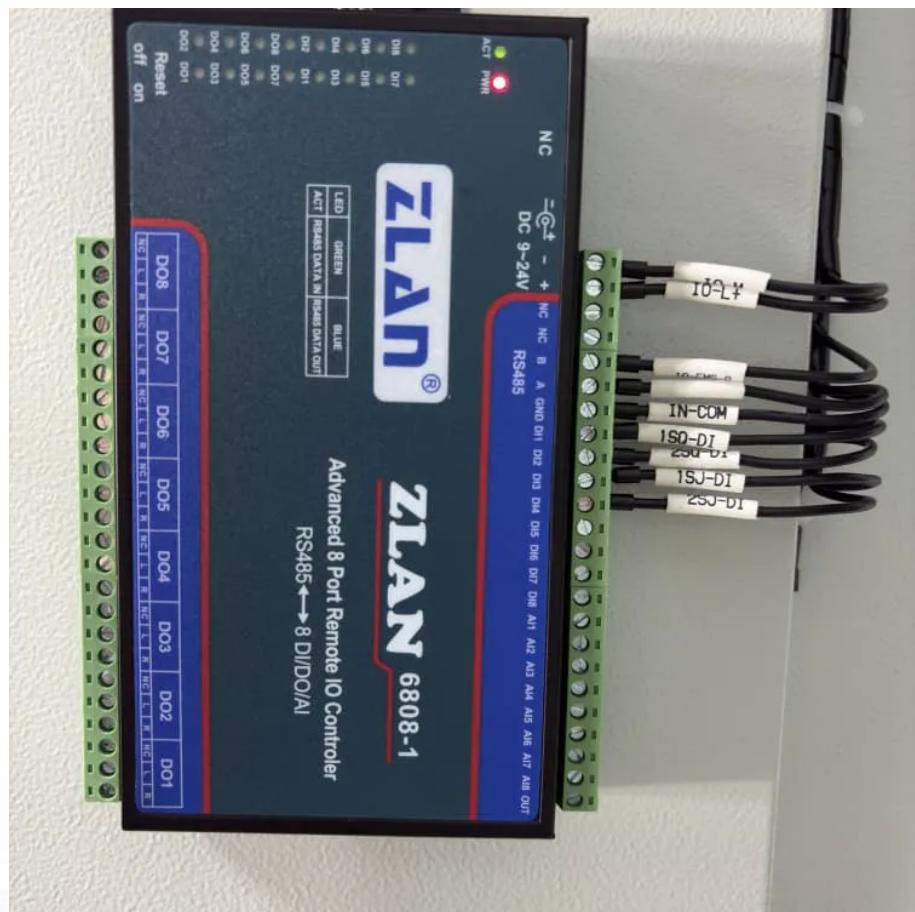




# A-Core Container

# North Africa Communications Building 5G Base Station



## Overview

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What is a 5G NR base station?

It facilitates communication between user equipment (UE), such as smartphones and IoT devices, and the core network. Unlike LTE base stations (eNodeBs), 5G NR base stations are designed to handle the enhanced requirements of 5G, such as high throughput, network slicing, and support for multiple frequency bands.

What are mmWave NR base stations?

**Key Features:** mmWave small cells deliver the ultra-fast speeds promised by 5G in urban hotspots. They are deployed on lamp posts, traffic lights, and building walls in areas with high user density and line-of-sight accessibility. Each type of 5G NR base station plays a distinct and crucial role in building a reliable, high-performance 5G network.

How many 4G networks are there in Africa?

In Africa, the 700 MHz band has only been deployed in five 4G networks and one 5G network to date, although 14 operators across the region have received spectrum assignments in the band. Accelerating the deployment of 4G and 5G networks requires spectrum in low, mid- and high bands. This is critical to realising the social and economic benefits.

Who needs a private 5G network in South Africa?

In South Africa, for example, MTN is building private 5G networks for 14 companies in the mining and ports sectors. Most stakeholders in the 5G Africa Survey envisage demand for private 5G networks in their market, with mining, ports, oil and gas, education and agriculture among the prospective sectors.

Is 5G making inroads in Africa?

5G continues to make inroads in Africa. As of September 2023, 27 operators in 16 markets across the region had launched commercial 5G services. More

markets are expected to follow soon, with operators in an additional 10 countries making.

Will arm launch 5G solutions Labs in Africa?

Arm has ambitions to launch 5G solutions labs across Africa, starting with South Africa. Realising the potential of 5G in Africa depends on customer adoption and usage, which in turn strengthens the business case for network rollout. As with previous mobile generations, the consumer market will be an important growth driver for 5G.

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### Contact Us

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