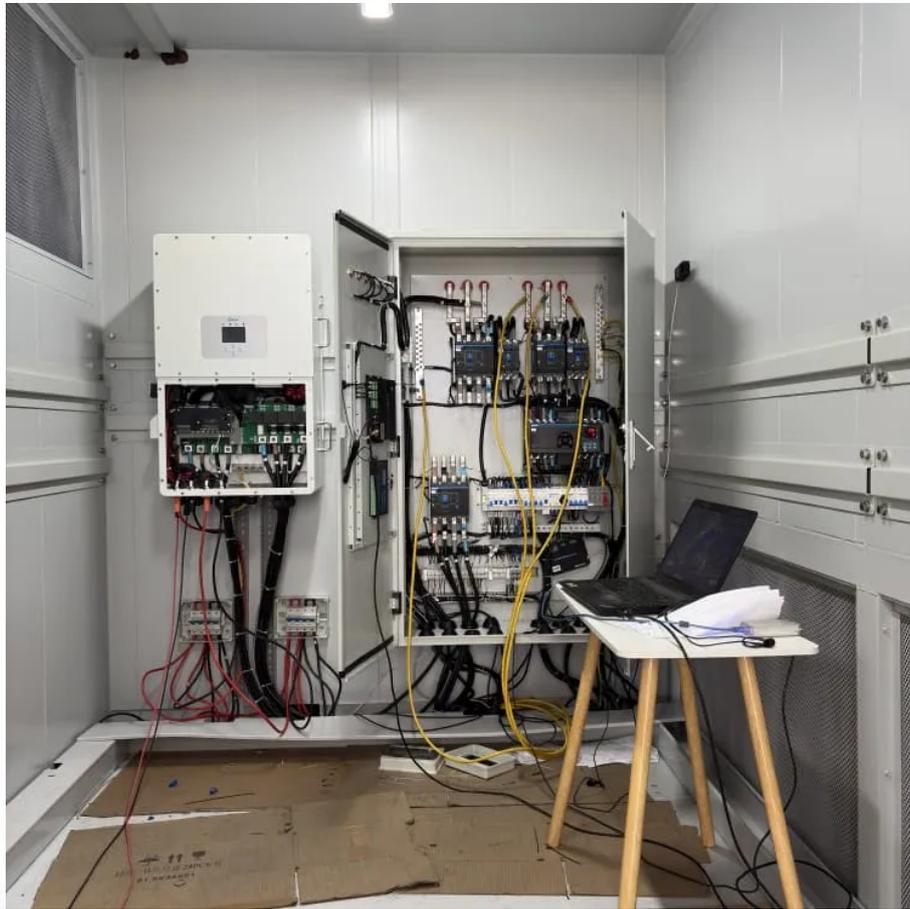


## A-Core Container

# Niue Communications 5G Base Station Airport



## 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 is 5G a sensing base station?

In terms of runway monitoring, the 5G-A sensing base station covers blind spots and ensures safe data transmission even during power outages of monitoring equipment. For passengers, the technology ensures high-speed, stable network connections, significantly enhancing the connectivity experience.

Why should airports use 5G networks?

Private 5G networks improve passenger transfer times and lower operating cost for airports by enabling self-driving shuttles through reliable and secure communications with remote operations control centers.

When will 5g-a technology be used in Smart Airport construction?

In March 2024, Baoshan Yunrui Airport in Yunnan, China, celebrated the launch of the world's first 5G-A smart airport sensing base station, marking the debut application of 5G-A technology in smart airport construction.

What is OAI cn5g?

OAI CN5G. The core network of the 5G Network that we will be setting up. Hence, a database will be required to be able to register SIM's as a normally done in cellular networks for controlling data, traffic, and so on. OAI gNB. The 3GPP 5G Next Generation base station which supports the 5G NR (5G New Radio).

What are the components of a 5G base station?

Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes:

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### Contact Us

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