

# The working function of 5g base station in Kyrgyzstan





## Overview

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What is a 5G base station?

It plays a central role in enabling wireless communication between user devices (such as smartphones, IoT devices, etc.) and the core network. The base station in a 5G network is designed to provide high data rates, low latency, massive device connectivity, and improved energy efficiency compared to its predecessors.

What are the advantages of a 5G base station?

**Massive MIMO:** The use of a large number of antennas allows the base station to serve multiple users simultaneously by forming multiple beams and spatially multiplexing signals. **Modulation Techniques:** 5G base stations support advanced modulation schemes, such as 256-QAM (Quadrature Amplitude Modulation), to achieve higher data rates.

What is a 5G baseband unit (BBU)?

**Baseband Unit (BBU):** The baseband unit processes digital signals and manages the overall communication with the core network. In some 5G architectures, the BBU is separated from the RF frontend, leading to a Cloud RAN (C-RAN) or virtualized RAN (vRAN) deployment.

What is a 5G Brain Center?

Often referred to as the brain center, this includes: **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**



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### Base Stations

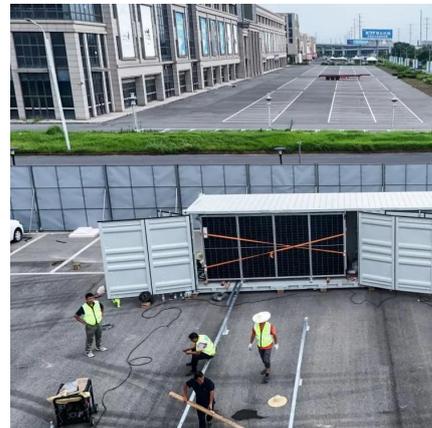
The idea of base stations is anchored in their function to provide coverage, capacity, and connectivity, hence allowing for extending the working capabilities of mobile phones and other radio gear.

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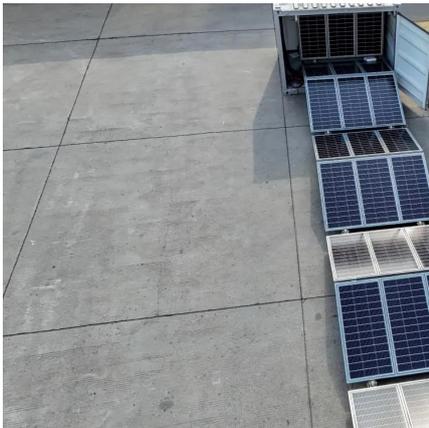
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