

## Kongres Container

# Communication 5G base station 3 44MWh



## 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 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:.

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.

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 macro cell?

Macro cells are large base stations that provide broad coverage, typically several kilometers in radius. These are deployed on tall towers, rooftops, or other high structures and are essential for providing the backbone coverage of a 5G network. Key Features: Macro cells form the coverage layer of the 5G network.

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