

Mobile communication integrated base station frame





Overview

What is a mobile base station?

A mobile base station, also called a base transceiver station (BTS), is a fixed radio transceiver in any mobile communication network or wide area network (WAN). The base station connects mobile devices to the network and routes them to other terminals in the network or to the core network of a mobile operator. Read more [Explore Mobile base](#).

What is a mobile node and a base station?

As shown in Fig. 1, a mobile node (MN) equipped with a single antenna and one base station (BS) equipped with a uni-form linear array (ULA) of N_a antennas are deployed. Without loss of generality, we consider uplink communication system in the two-dimensional Cartesian coordinate.

Can integrated sensing and communications improve spectral efficiency in vehicle-to-infrastructure (V2I) networks?

To address this challenge, integrated sensing and communications (ISAC) techniques have been employed at the base station (gNB) within vehicle-to-infrastructure (V2I) networks, aiming to minimize overhead and improve spectral efficiency.

What is a baseband unit (BBU)?

This integration improves performance in mobile networks and enables some of the following advances. The baseband unit (BBU) is a crucial component in mobile base stations, handling tasks like signal processing, resource allocation, and protocol management to ensure efficient communication between mobile devices and networks.



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Belfone Integrated Mobile Base Station Trunking Communication ...

Nov 9, 2025 · Significantly enhance communication efficiency, enabling stable and efficient operation in multi-carrier working modes. Multi-Carrier Compared to standard mobile base ...

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Integrated Sensing and Communication enabled ...

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Distributed 5G NR-Based Integrated Sensing and Communication ...

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Mar 5, 2025 · Joint Frame Structure and Beamwidth Optimization for Integrated Localization and Communication Tianhao Liang, Zhaoyi Yu, Tingting Zhang, Sheng Zhou?, Wentao Liu+, Dong ...

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