



MODERNIZATION SOLAR

Cross-base station communication solution





Overview

What is a passive is-integrated base station?

In particular, integrating passive IS into the base station (BS) is a novel solution to enhance the wireless network throughput and coverage, both cost-effectively and energy-efficiently. In this article, we provide an overview of IS-integrated BSs for wireless networks.

Does a multi-base station architecture support multi-target sensing?

This paper considers a multiple base station (BS) architecture to support the comprehensive services of data transmission and multi-target sensing. In this context, a cooperative BS assignment and resource allocation (CBARA) strategy is proposed in this paper, aiming at jointly optimizing the communication and sensing (C&S) performance.

What is communication and sensing (C&S)?

communication and sensing (C&S), ISAC enhances resource utilization efficiency, thereby reducing both capital and oper-ational expenditures. Moreover, the inherent synergy between C&S within ISAC frameworks can mutually enhance their performance, leading to improved overall system capabilities , .



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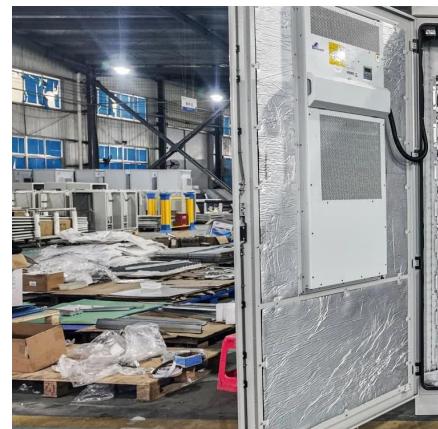


[Multi-objective cooperative optimization of ...](#)

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ...

[Cooperative Base Station Assignment and Resource ...](#)

Oct 2, 2025 · Numerical results show the effectiveness of the proposed solution, which achieves a performance improvement of 117% in communication rate and 40% in sensing accuracy, ...



[Integrating Base Station with Intelligent Surface for 6G ...](#)

Jan 13, 2025 · Intelligent surface (IS) technology is promising for sixth-generation (6G) wireless networks, which can effectively reconfigure the wireless propagation environment using ...

[Multiuser Communications with Movable-Antenna Base Station ...](#)

Dec 8, 2023 · This paper studies the deployment of multiple movable antennas (MAs) at the base station (BS) for enhancing the multiuser communication performance. First, we model the



...



Communication Base Station

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Integrated Sensing and Communication enabled ...

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Solutions for Base Station Components, Syensqo

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