Unmanned communication equipment base station

Can unmanned aerial vehicle-mounted base station be used for 6G wireless networks?
Scientific Reports 15,Article number: 15882 (2025) Cite this article Thanks to its flexibility and cost-effectiveness,an unmanned aerial vehicle-mounted base station (UAV-BS) is a promising technologyfor the upcoming 6G wireless networks.

Can UAV base station localization be used under GPS jammed environments?
In our paper, we propose a UAV base station (BS) localization method under aerial global positioning system (GPS) jammed environments, where the UAV-BS simultaneously provides communication service to user equipments (UEs) on ground. Unaffected UEs are utilized as reference anchor nodes to position UAV-BS to a near optimal location.

Can UAVs be used as Aerial Base stations?
By equipping UAVs with communication units to function as aerial base stations,wireless connections can be established with ground users to improve the quality of service (QoS for short),thereby compensating for the limitations of terrestrial communication systems in terms of flexibility and coverage range.

Can integrated sensing and Communication Technology be used in unmanned aerial vehicles?
There has been a recent increase in the studies on integrated sensing and communication (ISAC) technology within unmanned aerial vehicles (UAVs). In our paper,

The deployment of Unmanned Aerial Vehicles (UAVs) as aerial base stations (UAV-BSs) has emerged as a promising solution to enhance communication services provided to ...

By admin March 9, 2025March 9, 2025 telcomatraining - In the rapidly evolving world of wireless communication, new technologies are emerging to enhance network coverage and ...

A massive MIMO cellular system may use multiple antennas at a base station to mitigate the interference in a UAV communication system. In FD-MIMO transmission, the ...

In recent years, with the development of communication technology, computer technology, microelectronics technology and the huge impact of ...

This survey article focuses on the different applications and the related algorithms for realizing aerial base stations by thoroughly reviewing each related research area. In a ...

Unmanned aerial vehicles (UAVs), also named as drones, have become a modern model to provide a quick wireless communication infrastructure. They have been used when ...

In wireless communications, traditional base stations act as the backbone for providing network connectivity to users. These base stations, however, require significant ...

Abstract Future mobile communication networks need Unmanned Aerial Vehicles as Base Stations (UAVasBSs) with the fast-moving and long-term hovering capabilities to ...

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Unmanned aerial vehicles mounted base stations (UAV-BSs) are expected to become one of the significant components of the Next Generation Wireless Networks ...

CUAV LBA 3 UAV Communication Micro BaseStationFormation Flight LBA 3 is equipped with CUAV flight control, GPS/RTK, and other hardware equipment, and an LGC ...

A flying base station based on an unmanned aerial vehicle (UAV) uses its mobility to extend its connectivity coverage and improve its ...

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