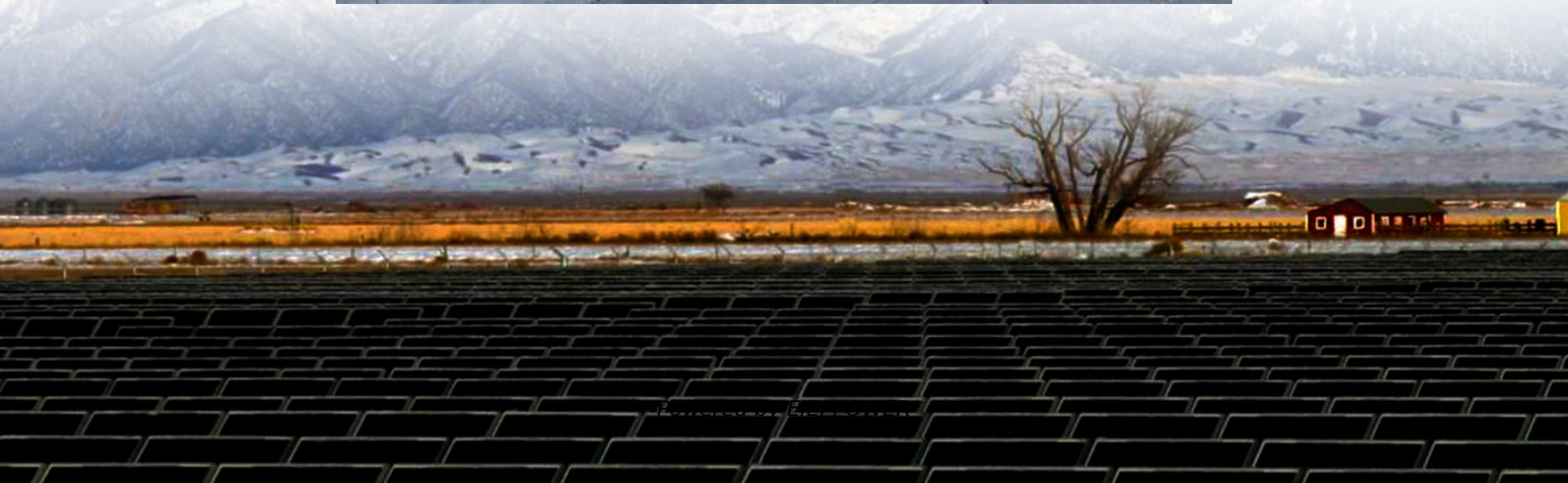


# **Mobile emergency communication high altitude base station**





## Overview

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What is a high altitude platform station?

This concept is known under the designation High Altitude Platform Stations (HAPS) as IMT base stations, or HIBS. By using the same spectrum as already identified for IMT and where deployments already exist today, HIBS can extend the operator's coverage area and benefit from the already existing device ecosystem.

Can high-altitude platforms be used for mobile communication?

Mobile communication via high-altitude platforms operating in the stratosphere is an idea that has been on the table for decades. In the past few years, however.

Can a UAV carry a 5G portable base station?

Emergency communication is difficult to be arranged and resume quickly, which severely hinders disaster rescue operations. Based on the above disaster scenarios, we used UAV to carry 5G portable base station devices and construct a temporary 5G high-altitude emergency base station.

How can emergency services be increased?

Although the capacity of emergency services can be raised by building more and expanding the current hospitals, adding prehospital emergency spots, or facilitating the nurturing of emergency medical personnel, the high costs incurred and the long cycle cannot fulfill the growing demand for better capacity of emergency medicine in the short-term.



## Mobile emergency communication high altitude base station

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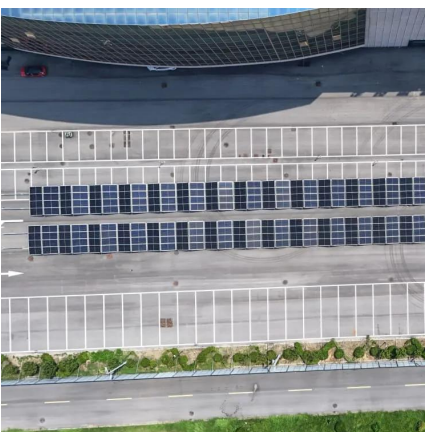


### The industry's first high-altitude emergency communication ...

As early as 2014, Baicaibang creatively proposed a tethered drone high-altitude base station emergency communication solution. In recent years, relying on unmanned equipment and ...

### [An Independent UAV-Based Mobile Base Station](#)

Feb 22, 2025 · The proposed system includes PS-LTE functionalities, mission-critical push-to-talk, proximity-based services, and isolated E-UTRAN operation to ensure the reliable and secure ...



### [China Mobile Tethered UAV High-altitude ...](#)

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

### China Mobile Tethered UAV High-altitude Base Station and Emergency

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



huge impact of large-scale natural disasters, the demand ...

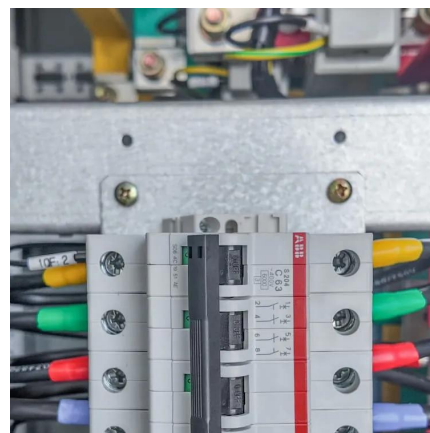


### Research and application of UAV-based high-altitude base station ...

Jan 21, 2024 · Uav technology is developing rapidly, and high-altitude base stations using drones as liftoff platforms have a wide range of flexible and mobile coverage, which can be widely ...

### [A Primer on HIBS - High Altitude Platform Stations as ...](#)

Sep 29, 2022 · The focus of this article is on airborne NTN utilizing the same frequency bands as ground based International Mobile Telecommunications (IMT) base stations (BS). This ...



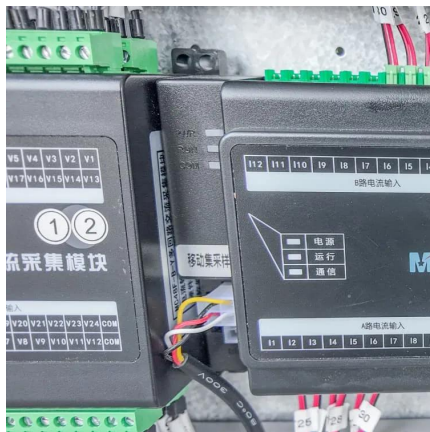
### China Mobile Spent 21 Million Calling for Bids for UAV Base Stations

The UAV high-altitude emergency base stations can cover an area of 50 square kilometers and offer instant communication for 5,400 mobile phone users at the same time can lift off to an ...



### On-demand cellular coverage using drone-mounted base stations

Nov 1, 2025 · In situations where communication is crucial for saving lives, high-altitude base stations can offer emergency communications in disaster zones. As a result, drone-mounted ...



### Tethered Balloon Cluster Deployments and Optimization for Emergency

Jan 7, 2000 · Natural disasters can severely disrupt conventional communication systems, hampering relief efforts. High-altitude tethered balloon base stations (HATBBSs) are a ...

### Construction of a 5G-based, three-dimensional, and ...

Mar 1, 2023 · Based on the above disaster scenarios, we used UAV to carry 5G portable base station devices and construct a temporary 5G high-altitude emergency base station. This ...



### High-Altitude Platform Stations as International Mobile

Sep 22, 2022 · Mobile communication via high-altitude platforms operating in the stratosphere is an idea that has been on the table for decades. In the past few years, however, with recent ...



## [An Independent UAV-Based Mobile Base](#)

...

Feb 22, 2025 · The proposed system includes PS-LTE functionalities, mission-critical push-to-talk, proximity-based services, and isolated E ...



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