

# High-altitude base station emergency communication



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### [The industry's first high-altitude emergency communication solution for](#)

When humans face major natural disasters, accidents, and public health emergencies, emergency communications are essential. One company combines drones with small communication base

### [\[217\] A high-altitude base station for VTOL fixed-wing UAVs for](#)

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

The main characteristics of the three types of high-altitude platforms are summarized in Table I. Apart from the difficulties related to the construction and operation of the platforms, operating a

### **M6AN: Emergency Communication Coverage Enhancement Scheme**

The deployment of Six-Dimensional Movable Antenna (6DMA) technology on Unmanned Aerial Vehicle Base Stations (UAV-BSs) is expected to offer enhanced degrees of freedom (DoFs)



### [High Altitude Platform Stations in Design](#)



## Solutions for Emergency

This paper has briefly presented the idea of the use of HAPS as base stations to provide and face emergency services. Advantages of such an application include rapid deployment, large coverage

### **An Independent UAV-Based Mobile Base Station**

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results provide a sufficient data rate to make an independent mobile



### **Japan's Softbank "high-altitude base station"**

In order to deal with the problem of communication interruption after the disaster, Japan's SoftBank cooperated with Alphabet, the parent company of the US IT giant Google, to launch the project of

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

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 used in emergency



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

The UAV emergency high-altitude base station can cover up to 50 square kilometers and

provide instant messaging for 5,400 mobile phone users at the same time. It can quickly take off to

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In this case, high-altitude base stations can be used to provide emergency communications in the disaster area, where communications play a critical role in saving lives [1].



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