

# **High-altitude platform emergency communication command base station**





## Overview

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What is a high altitude platform station?

Abstract—The high altitude platform station (HAPS) concept has recently received notable attention from both industry and academia to support future wireless networks. A HAPS can be equipped with 5th generation (5G) and beyond technologies such as massive multiple-input multiple-output (MIMO) and reconfigurable intelligent surface (RIS).

What is a high altitude platform station (Haps)?

High Altitude Platform Station as IMT Base Stations (HIBS) are essentially HAPS platforms (see Figs. 1 & 2), defined and operating within the context of a station in the mobile service (specifically IMT mobile service). This distinction reflects the lens through which the ITU currently views these technologies and the services they may support.

Can high-altitude platforms be used for telecommunications?

They are equipped with solar panels and batteries to provide power, and carry payloads such as telecommunications equipment, cameras, and sensors. The concept of using high-altitude platforms for telecommunications is not new, with studies on the technology dating back to the 1990s.

Are low altitude UAS better than terrestrial communications?

Compared to terrestrial communications or satellites, low altitude UAS are generally faster to deploy, more flexibly reconfigured and have better communication channels due to presence of short-range LOS links.



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High-Altitude Platform Stations: The Future of ...

Sep 9, 2024 · High-altitude platform stations, commonly known as HAPS, are an emerging technology that has the potential to revolutionize telecommunications and bring connectivity to ...

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High Altitude Platform Stations in Design Solutions for ...

Nov 4, 2011 · ABSTRACT High Altitude Platform Stations (HAPS) are expected to conform a third major infrastructure for communications and broadcasting, after terrestrial and satellite ...

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High Altitude Platform system

Jan 18, 2025 · A shift in demands for telecommunication services fuels technological advancement regarding a whole array of possible solutions by the use of aircraft and airship ...

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Chapter 17: High - Altitude Platforms (HAPS) ...

The student will be introduced to High-Altitude Platforms (HAPS) for wireless communications. This overview will include the key design ...

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China Mobile Tethered UAV High-altitude ...

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

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Base Stations in the Sky: SoftBank Corp. to ...

Jun 27, 2025 · To help bridge the digital divide and provide emergency communications during disasters, SoftBank Corp. (TOKYO: 9434) has ...

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Chapter 17: High - Altitude Platforms (HAPS) - A Promise ...

The student will be introduced to High-Altitude Platforms (HAPS) for wireless communications. This overview will include the key design considerations, architecture, channel considerations, ...

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HAPS - High-altitude platform systems

Jul 7, 2025 · High-altitude platform station (HAPS) systems can be used to provide both fixed broadband connectivity for end-users and transmission ...

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HAPS - High-altitude platform systems

Jul 7, 2025 · High-altitude platform station (HAPS) systems can be used to provide both fixed broadband connectivity for end-users and transmission links between the mobile and core ...

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Multi-Mode High Altitude Platform Stations (HAPS) for ...

Jun 24, 2023 · Abstract--The high altitude platform station (HAPS) concept has recently received notable attention from both industry and academia to support future wireless networks. A



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#### 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 ...

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#### 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 ...

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#### Base Stations in the Sky: SoftBank Corp. to Launch Pre ...

Jun 27, 2025 · To help bridge the digital divide and provide emergency communications during disasters, SoftBank Corp. (TOKYO: 9434) has been actively conducting research and ...

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#### High Altitude Platform Stations as IMT Base Stations (HIBS

Nov 8, 2023 · Abstract High Altitude Platform Stations as IMT Base Stations (HIBS) are aerial platforms that will function as flying base stations. There are clear advantages to using these ...

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