



# Ground auxiliary base station emergency communication





## Overview

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The reconstruction of the communication network is a precondition for the smooth implementation of rescue and disaster recovery after geological disasters. Although traditional post-disaster emer.

What is integrated satellite-ground emergency constructed-network technology solution after disaster (ISG-ECN)?

In this article, we propose an integrated satellite-ground emergency constructed-network technology solution after disaster (ISG-ECN). The emergency communication network mainly includes two parts: ground Mesh network () and satellite portable station.

How does a geological disaster affect the emergency communication network?

Particularly when a major geological disaster occurs, it will do harm to the existing mobile communication network, present additional difficulties to rescue work, and have a significant impact on the rescue work for the speed of reconstruction of the emergency communication network after the disaster () .

What is emergency communication network?

The emergency communication network mainly includes two parts: ground Mesh network () and satellite portable station. Among them, the ground Mesh network is used to construct a local area network () covering the geological disaster site, and the satellite portable station is used to connect the local area network to the external public network.

Why do we need a post-disaster emergency communication network reconstruction system?

Because 72 h after the disaster is particularly important time period for rescue work (), it is necessary to design and develop a portable, easy to build, and stable post-disaster emergency communication network reconstruction system.



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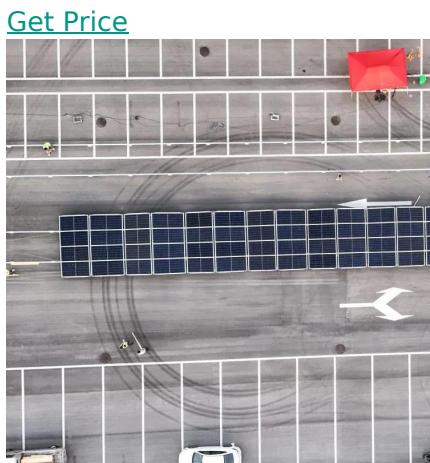
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## An Independent UAV-Based Mobile Base

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In disaster scenarios, e.g., earthquakes, tsunamis, and wildfires, communication infrastructure often becomes severely damaged. To rapidly restore damaged communication systems, we propose a UAV ...

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## **BTS base station on sales**

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## Research on the space-air-ground integrated emergency communication

This paper proposes and studies a Space-Air-Ground Integrated Emergency Communication Auxiliary System. By introducing Beidou Satellite (BDS) transceivers and internetwork ...

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