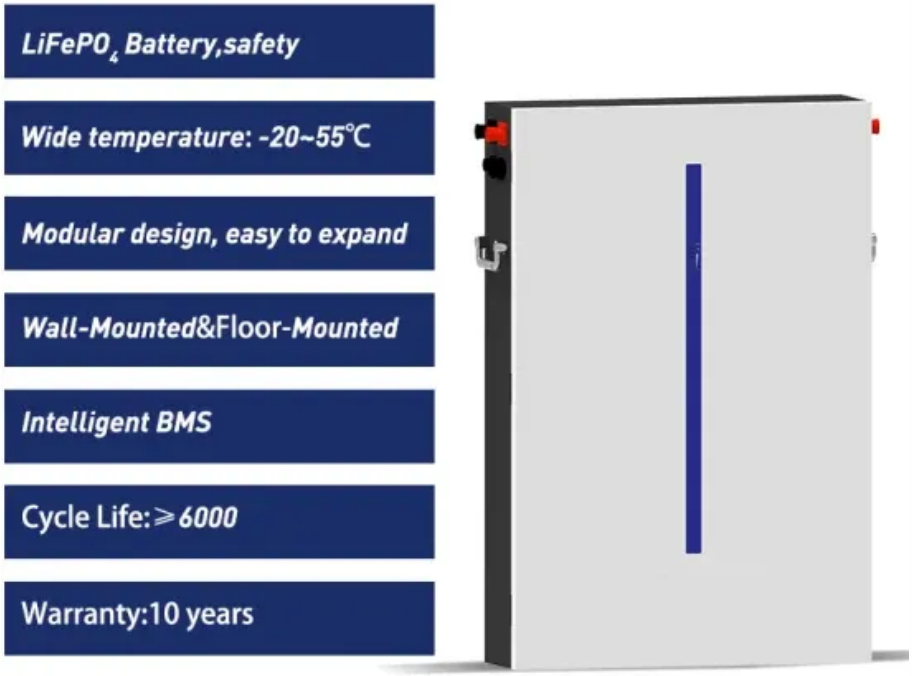
Earthquake Communication Green Base Station



Overview

To rapidly restore damaged communication systems, we propose a UAV-based mobile base station equipped with Public Safety LTE (PS-LTE) technology to provide standalone communication capabilities.

Earthquake Communication Green Base Station

[On the path to recovery: three months after the earthquake in Vanuatu]

A 7.3 magnitude earthquake struck Port Vila on 17 December 2024, claimed 14 lives, destroyed critical infrastructure, and displaced over 2000 people who needed to stay in evacuation

[Post-earthquake functionality assessment and emergency base]

This paper presents a GIS-integrated framework for assessing post-earthquake functionality of the communication system and optimizing emergency base station deployment to restore network

[Environmentally-Friendly, Disaster-Resistant Green Base Station]

In this article, we give an overview of the green base station concept and describe our test equipment and basic operational results.

Myanmar earthquake response 2025

Sagaing earthquake in Myanmar On 28 March 2025, two powerful earthquakes struck central Myanmar's Sagaing Region near Mandalay. The first, with a magnitude of 7.7, occurred at

[Solutions for Sustainable and Resilient Communication Infrastructure]

To this end, this paper provides a comprehensive exploration of the technological solutions and strategies necessary to build and maintain

resilient communications networks that can withstand and

[Post-earthquake functional state assessment of communication base]

This paper proposes a Bayesian network method to evaluate the post-earthquake functionality of communication base stations. The method considers the dependence between the

Great East Japan Earthquake

Great East Japan Earthquake, 2011 In the early afternoon of 11 March 2011, Japan was rocked by a 9.0-magnitude earthquake that caused widespread damage to the country's eastern

Emergency

A strong earthquake of 6.4 magnitude hit Nepal's Western Province of Karnali, shortly before midnight, on 3 November 2023. As of 24 November 2023, 154 people (Female: 83, Male: 71) had died and

[Lives Rebuilt: Personal Stories from Myanmar's Earthquake Recovery]

A community struggling, yet unbroken & WHO's people centered response The hardships these individuals face reflect the wider struggles of millions displaced by the earthquake. Safe water,

GPS Station List

USGS Earthquake Hazards Program, responsible for monitoring, reporting, and researching earthquakes and earthquake hazards

Field Test of "Green Base Station"

As shown in Fig. 1, a green base station, solar panel power generation green base station can be achieved by adding the characteristics, and large capacity battery

Reliability prediction and evaluation of communication base stations in

One of the primary tasks for effective disaster relief after a catastrophic earthquake is robust communication. In this paper, we propose a simple logistic method based on two-parameter

WHO Responds to Nepal Earthquake

Working closely with the government and partners, WHO is supporting to respond to the urgent health needs of the affected populationA 6.4 magnitude earthquake hit Nepal's Western

WHO scales up emergency response in earthquake-hit Myanmar,

Intensifying support to earthquake-hit Myanmar, the World Health Organization (WHO) has provided nearly 100 tons of medicines, medical devices and tents so far, and is assisting in

Earthquakes

An earthquake is a violent and abrupt shaking of the ground, caused by movement between tectonic plates along a fault line in the earth's crust. Earthquakes can result in the ground

Earthquake-resistant communication base station EMS tower

Analyzing and summarizing these observed

seismic damages can enhance our understanding of the impairment of communication base stations during earthquakes, providing valuable information for

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

SolutionsforSustainableandResilientCommunicationIn

considering communications and energy solutions together to build resilient and sustainable infrastructure. In these earthquakes, communication was disrupted even in area

after an earthquake

After an earthquake, there may be unpredictable aftershocks, landslides and fires. Aftershocks may occur immediately after the earthquake or after days, weeks or even months. Follow instructions from

Healing in the Open: Stories of Strength and Recovery After the

Aiming to restore essential services and strengthen the resilience of earthquake-affected communities, over 3,100 mothers and newborns have received support through the distribution of

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