

**KREATYWNY ENERGY POLSKA**

# **Solve the problem of communication without base station**



## Overview

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A dissertation at Linköping University in Sweden presents a program that runs on telephones and can deliver messages even when the infrastructure for telecommunication has been knocked out. Natural disasters in recent years have shown how vulnerable our society is to unforeseen and. High-precision GNSS positioning using RTK normally requires receiving correction information from a base station via communications, which is impossible outside coverage, preventing attainment of high accuracy. Mikael Asplund, a doctoral candidate in computer science, is now presenting, among other things, a complement to. The new generation of mobile phone technology makes it possible to communicate directly from one telephone to another without having to rely on base stations. This form of communication is also different from the all-wireless walkie-talkie communication since an access to a wireline network infrastructure is demanded. Cellular systems address such a multitude of spectra are available for. Besides the communication with no fixed centers of base stations, and the establishment of a multi-level communication network via the wireless module, which enables the communication of data between the control center and the front end of two-way transmission. This project uses TDMA communication.

## Solve the problem of communication without base station

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### Mobile telephony without base stations , ScienceDaily

Mikael Asplund and his associates have designed a program that overcomes these difficulties when it is run on telephones, making it possible to deliver messages under extremely ...

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### 5G Communication Without Base Station , PDF

The document discusses scenarios for 5G communication without a base station, highlighting Device-to-Device Communication (D2D), Relay Mode, and Private Networks/Ad-Hoc Mesh.



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### Base Stations

The present-day tele-space is incomplete without the base stations as these constitute an important part of the modern-day scheme of wireless communications. They are referred to as cell ...



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### No base stations or communications required! Centimeter-level RTK

However, with the recent emergence of a new technology called "LRTK," it is becoming possible to achieve centimeter-level positioning anywhere without base stations or communications.



### **The Design and Implementation of Multi-level Communication ...**

This paper introduced a method of establishing a multi-level communication network without base stations.

### **(PDF) A LoRaWAN Architecture for Communications in Areas without**

This article proposes a system based on a long-distance communications system with low economic and energy costs that allows connectivity to be carried out independently from the existing



### **The Cellular Concept-- System Design Fundamentals**

If a high speed user in the large umbrella cell is approaching the base station, and its velocity is rapidly decreasing, the base station may decide to hand the

user into the co-located microcell,  
without MSC ...



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### **Cell Phones without base stations , Engineering News**

Mikael Asplund and his associates have designed a program that overcomes these difficulties when it is run on telephones, making it possible to deliver messages under extremely severe conditions. The ...



### **Mobile telephony without base stations**

The advantage of this type of spontaneous network is that it can be used by everyone, without any special equipment, and it can be set up virtually instantly to solve problems that arise in a ...

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### **Cellular systems: multiple access and interference management**

r communication: multiple access and interference management. The first

issue addresses how the overall resource (time, frequency, and space) of the system is shared by the users in the same cell ...



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