High-altitude 5G base station communication distance

Recent test deployments delivering broadband Internet access using stations approximately 20 km above ground have demonstrated their ability to provide connectivity to remote or underserved ...

The trial established an aerial relay backhaul line between the Cessna aircraft, flying at altitude of approximately 4km, and three ground stations, using the 5G New Radio (NR) standard 5 ...

Additionally, we proposed a power control-aided distance protection method to facilitate the coexistence of 5G base stations and the radar altimeter. In this paper, we ...

In this short paper, we present an overview of a 5G NR-based (new radio) HAPS communications system comprised of both service and feeder links that can serve a large coverage area.

HAPS systems have unique properties. First, HAPS are typically located at an altitude of 20 km, against altitudes between 350 and 2000 km for LEO satellites. Hence, a HAPS would experience less path ...

Researchers in Japan announced on 28 May that they have successfully tested 5G communications equipment in the 38 gigahertz band from an altitude of 4 kilometers.

This experiment demonstrated that a terrestrial 5G network backhaul circuit by the overhead relay of 5G (NR system) can be established using 38-GHz band radio waves between a ...

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

A Japanese consortium has announced the world"s first demonstration of 5G communication from an altitude of 2.48 miles (4km) using a 38GHz band.

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