Solar-powered communication system 400V for vehicle-mounted fiber optics

The SpecFive Voyager is a rugged, solar-powered LoRa Meshtastic device that keeps you connected off-grid. It is designed for vehicles, convoys, and remote ...

The purpose of this project is to show how solar energy can be harvested and channeled to power a vehicle. Our project is to demonstrate how rays of sunlight can be trapped by the solar cells and ...

We designed an in-vehicle communication system using wavelength division multiplexing and investigated its characteristics under various environments. Since a s

This paper first presents the motivation of applying vehicle optical fiber communication technology and reviews the development history of vehicle optical fiber communication technology.

A solar-powered, vehicle-mounted communication device, Voyager is launched by SpecFive, using PV panels to enable off-grid LoRa mesh communication and GNSS navigation.

The system is encapsulated with a visual tracking module and mounted on drones and vehicles, achieving mobile duplex real-time communication under sunlight. The communication ...

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Designed for rapid deployment on any vehicle, the Voyager runs entirely on solar power and requires zero user intervention once mounted, making it ideal for public safety, utility operations, ...

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The system showcases wireless energy transfer, vehicle detection automation, and remote data monitoring via ThingSpeak, powered by solar energy. The road is embedded with inductive coils, ...

In this paper, we present an experimental performance evaluation of a vehicular VLC system with a truck headlight as the transmitter and a solar panel as the receiver.

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