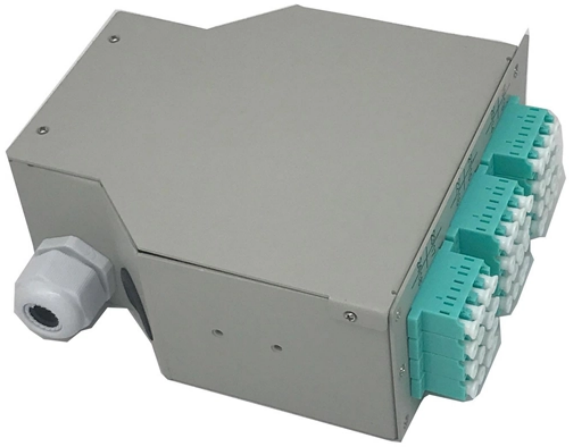
GDR Telecom Site Energy Systems

IoT Smart Distribution Box Case Study



Overview

This paper describes the design, development, and deployment of a smart distribution box enabled by the Internet of Things (IoT) with the goal of improving defect detection, power monitoring, and overall energy management in single-phase residential power applications. The system empowers homestay owners to efficiently control and monitor energy usage at their properties through a. This project introduces an IoT-controlled smart distribution box designed for enhanced energy management and convenience, boasting versatile features for both online and offline usage. Utilizing a NodeMCU microcontroller unit, the system integrates a 4-channel relay for load management via voice. An IoT dashboard was used to display the most significant information in terms of voltage, current, real power, reactive power, apparent power, power factor, and energy consumption. With experience working in parcel shipment deliveries in southern California, one of the co-founders noticed a disturbing trend in the theft of packages delivered to consumers.

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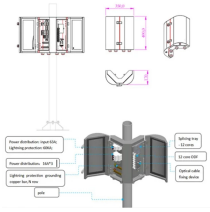
This study illustrates the design and the implementation details of an IoT-enabled electric DPB equipped with smart features. The design integrates ...

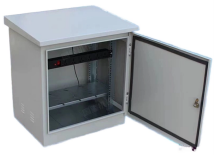
Existing distribution network is facing different challenges including power theft, over energy usage by residential loads, unbalanced loads on three phases. In

This study illustrates the design and the implementation details of an IoT-enabled electric DPB equipped with smart features. The design integrates IoT cloud computing capabilities and ML ...



This paper presents the design and implementation of a smart power distribution box that utilizes IoT technology for real-time power monitoring and fault detection in residential settings.

Learn how SaM Solutions turned Sun E Mate''s innovative idea into a real-world prototype in this IoT implementation case study.

	An IoT-based smart household distribu-tion board to monitor the performance of these appliances was developed in this study. The developed board can accurately monitor the current, voltage, and power ...
	The purpose of this project is to build and develop a Smart IoT-based power distribution board for Smart Home application. Distribution box is an electrical distribution panel where it helps in power ...
	In this regard, we demonstrate the design and the implementation details of an IoT-enabled panelboard with smart features.
	This paper describes the design, development, and deployment of a smart distribution box enabled by the Internet of Things (IoT) with the goal of improving defect detection, power monitoring, ...
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	Abstract This project introduces an IoT-controlled smart distribution box designed for enhanced energy management and convenience, boasting versatile features for both online and offline usage.

	This paper presents the design and implementation of a Smart Distribution Box (SDB) system aimed at addressing energy waste behaviour by tenants of homestays during vacation periods.

Contact Us

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