Applications of ZigBee Protocol in Security System: Literature Survey

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Abstract

Communication protocols are essential to enabling seamless connectivity in the vast world of the Internet of Things (IoT). The Zigbee Alliance created the Zigbee wireless communication standard, which uses IEEE 802.15. 4 radio frequency, with a focus on short-range, low-power data transfer. Zigbee is notable for its energy efficiency, scalability, and capacity to create robust mesh networks. It was created for use in sensor networks, industrial control, and home automation applications. Zigbee-enabled devices can easily communicate with one another to create networked systems that can self-heal and adapt. Zigbee has become well-known in the Internet of Things (IoT) ecosystem due to its emphasis on reducing power consumption and supporting a variety of devices. Because of its adaptability, it is a great option for smart home appliances, enabling dependable communication and advancing the development of intelligent, networked systems in a variety of sectors. This paper provides literature survey on the applications of Zigbee protocol in security system.

Index terms: Zigbee protocol, security system, applications

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