

ZigBee In Wireless Sensor Networks

Elementrix Classes

ZigBee is a wireless networking standard that is based on the IEEE 802.15.4 standard for wireless personal area networks (WPANs). It is designed for low-rate, low-power, and short-range communication between devices that are in close proximity to each other.

ZigBee is widely used in wireless sensor networks (WSNs) and the Internet of Things (IoT), as it provides a reliable and low-cost solution for wireless communication and control. It is particularly well-suited for applications that require long battery life, low cost, and simplicity, such as smart homes, building automation, and industrial control.

ZigBee defines several different network topologies, including star, tree, and mesh, which allow it to be used in a variety of applications and network architectures. It also defines several different device types, including coordinators, routers, and end devices, which have different capabilities and roles in the network.

Overall, ZigBee is a popular and widely adopted standard for low-rate wireless communication, and it is expected to play a key role in the development of the Internet of Things (IoT) and the wider adoption of connected systems.

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