CEL California Eastern Laboratories

Description of Operation

The Cortet Z100 Gateway (CGW-Z-0100) is a device intended for use in various wireless sensor network (WSN), machine-to-machine (M2M), and Internet of Things (IOT) applications. The Cortet Z100 Gateway is primarily intended to act as a reliable, secure, and low-cost bridge between two different IEEE 802.15.4 wireless networks such a ZigBee-based networks. The Cortet Z100 Gateway can as a ZigBee Coordinator (ZC) for one ZigBee network, coordinating communication of ZigBee end nodes using one of its two IEEE 802.15.4 radios. The Cortet Z100 Gateway can act as ZigBee Router (ZR) on another ZigBee network, acting as a backhaul to another ZigBee Coordinator (ZC) using its other IEEE 802.15.4 radio The Cortet Z100 Gateway will store, maintain, and perform many critical configurable network functions on the ZigBee networks – particularly on the ZigBee network it is coordinating as the ZC. Such functions include groupings of wireless devices, rules governing the behavior of wireless devices, schedules governing the behavior of wireless devices, etc. The radios implemented in the Cortet Z100 Gateways employ PCB trace antenna for optimum performance.