

Theory of Operation:

The Jarden Mesh Module provides a Bluetooth Low Energy connection for smart home devices of the First Alert Brand. For example, it can be placed in a smoke detector, CO2 detector, or home safe. The module will be part of a home BLE mesh network and communicate status updates of the device it is installed in. This information is transmitted over the standard 2.4GHz frequency spectrum as defined by the Bluetooth Low Energy standard. Maximum transmit power is 5 dBm. The radio IC is the CC2640 SOC with an ARM Cortex 3 core. Radio crystal frequency is 24 MHz, processor crystal frequency is 32.768kHz. The module has an integrated trace antenna on board used for wireless communication.