

REDFISH Operational Description

The REDFISH is a motion sensor which can also be connected to a larger EMS(energy management system) for buildings. The REDFISH can be associated with a room thermostat via ZIGBEE RF communication. 3VDC power is provided to the REDFISH by one or two lithium ion batteries. Communication is by Zigbee spread spectrum.

The REDFISH is permanently mounted on wall or ceiling in a conditioned space. The REDFISH transmits a signal whenever its infrared sensor detects motion.

The antenna used on the REDFISH is a chip antenna.

- RF data rate: 250 Kbps
- Interface data rate: Up to 115.2 Kbps
- Operating frequency: 2.4 GHz
- Receiver sensitivity: -92 dBm
- DSSS (Direct Sequence Spread Spectrum)
- Operating Frequency: ISM 2.4 GHz