Smoke Detector

ES800SK2

Integrated Smoke Detector

Operational Description

This device is a stand alone, 24x7, integrated, smoke detector. It features:

- Visual indication with tri-color LED where: Red – for smoke alarm, Green – for power status and Yellow – for low battery/chamber degradation
- Test/Mute button
- Powered by two AA-size Alkaline batteries
- Siren emitted sound of 85dBA (from 3m)

Accessories: Double-sided adhesive tape

With regards to communication:

- Maximum RF range 500m open air
- ECOP bi-directional radio protocol
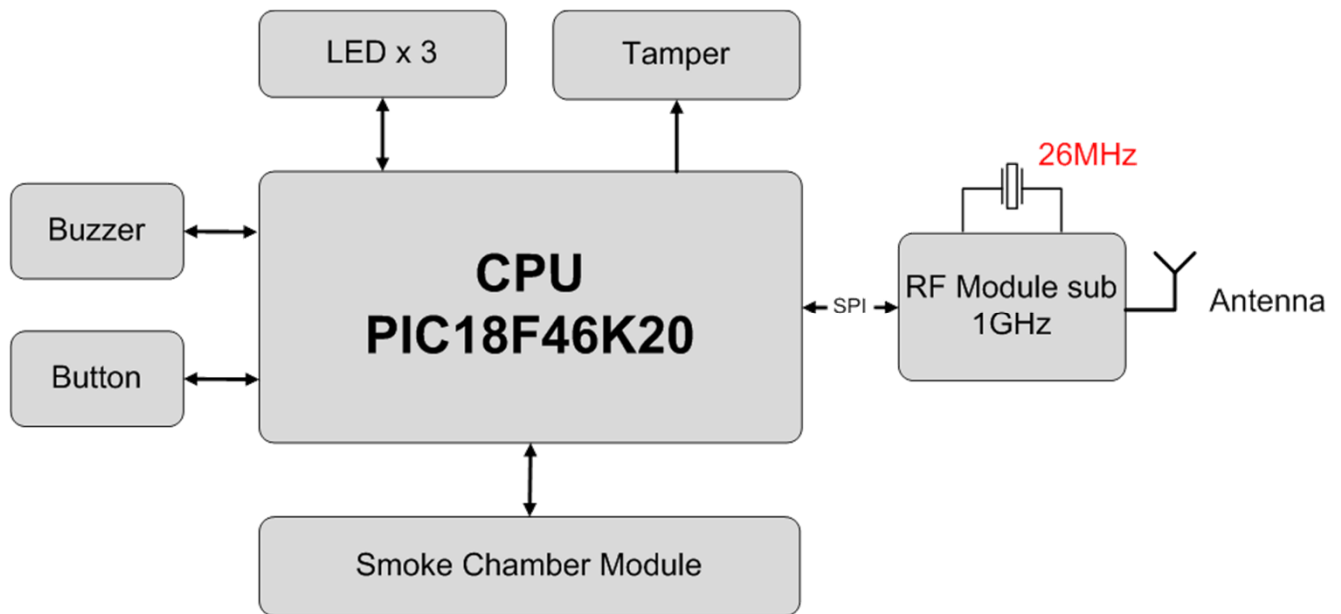- Modulation and Frequency: DSSS, 2.4 GHz

With regards to security:

- Tamper Alarm – when detached from base
- Mechanism prevents installation without battery
- Buzzer operates even if the Control Panel is not functional
- Data Security – 128bit AES encryption
- Unique electronic serial number
- Supports automatic over-the-air software upgrade (RSU) programming and configuration

Certifications and approvals:

For more information, go to: www.essence-grp.com/pages/WeR/Home

Block Diagram Description

The 2 AA-size batteries provide the power to the Smoke Detector, which convert it to several voltages needed by the components.

The main micro-controller gets data from a smoke chamber module , temperature sensor, buttons and tamper switch.

It interacts with the buzzer and with and with the RF-transceiver chip.

The product have a red indication LED for smoke alarm indication, green – for power status and yellow for low batteries or chamber degradation.