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zPoint Products
WYEZRY01 Switched Outlet
Description and Block diagram

Description

The zPoint Products Switched Outlet consists of 2 small pcbs installed in a Polycase PM2425 enclosure. The plastic enclosure has a flame rating of UL940V-0. The enclosure has a 3 prong 120VAC plug and 3 wire outlet built into the case. Both the plug and socket have a 120VAC 15 amp rating. The enclosure measures 4.0"H x 2.125"W x 2.5"D

Function

The Switched Outlet is one component of a minimum three component Zigbee wireless control system. The Switched Outlet receives zigbee commands and sets an internal relay on or off. The internal relay can switch external loads up to 120VAC at 8 amps.

Operation

The Switched Outlet is physically installed in a 120VAC output located in the vicinity of the Coordinator and a Control device. A user device, such as a Fan or light, is plugged into the Switched Outlet, and it switches 120VAC power to the device. There are no user adjustments or settings.

Clocks and Oscillators

The Zigbee RF radio block uses a 14mhz crystal connected to the JN5121 microprocessor/radio IC to clock the logic and radio circuits. No other clocks or oscillators are used.

Power Requirements: Radio portion - 120VAC at less than 50ma
Switched outlet – up to 10 amps at 120VAC

Operating Radio frequency: Channel 11 2.405 ghz to Channel 26 2.480 ghz

Transmitted power: 0dBm

Receive Sensitivity: -90dBm

Block Diagram

zRY01 Switched Outlet

