

## Description of Operation

The is a **Z-Wave** Light-Dimmer, it ZM3102N (U2) receives RF commands from the MCU (U2) ordered the lamp brightness control to adjust output.

The connected light can be turned ON in three ways:

1. With a Z-wave remote.
2. Manually with the pushbutton on the Z-wave module.
3. By the Load-Sensing feature. Normally. The Z-wave module controls the ON/off state of the connected light and power is either turned On or Off at the module (either manually or by the remote). If the switch on the connected light is used. The z-wave control circuitry automatically that the light is being turned On and activates The Z-wave controlled outlet. Providing power to the connected device.

The device adapts **FSK** modulation. And the antenna was a [PCB Antenna](#),

RF Data rate 9.6 kbps / 40kbps

Modulation Frequency Shift Keying (FSK)

Frequency deviation Center frequency 908.42MHZ  $\pm$  20kHz