Product Description

Cielo Z-PC, will enable home owners to access common options and controls using the Z-Wave wireless protocol. Cielo Z-PC is a USB to Z-Wave enabled transceiver that is used for communicating with other Z-Wave enabled devices such as;

- light switch dimmers
- thermostats
- window shades and drapes
- operable windows
- door strikes
- garage door openers

An example of the products including the Cielo Z-PC is a Cielo Z-Wave Lighting Control Package which includes the Z-PC device and PC based software that provides status display and graphical icons that can be used to control Z-Wave enabled light switches and dimmers via a PDA or PC. A set of out-of-the-box home lighting behaviors and ability to create custom lighting scenes is supported. 802.11 wireless network control can be added to the PC that the Z-PC is connected to via USB so that a WiFi enabled PDA device can act as a universal remote that can be carried throughout the home.

Theory of Operation

The Cielo Z-PC adds a USB bridge communicating with the ZM1206 (Z-Wave) application module through the standard application connector provided on the Z-Wave Application Module blueprint. For specific information on circuit functionality and antenna implementation of the Z-Wave ZM1206 Application module please refer to the file 903501802.pdf.

The implementation of the USB bridge communication uses a TI USB3410 micro-controller. For detailed information on this device refer to the TI data sheet.