

WeR@Home™



Z-Wave® Extender



ES800ZWE

Incorporating Z-Wave® Devices into the WeR@Home™ System

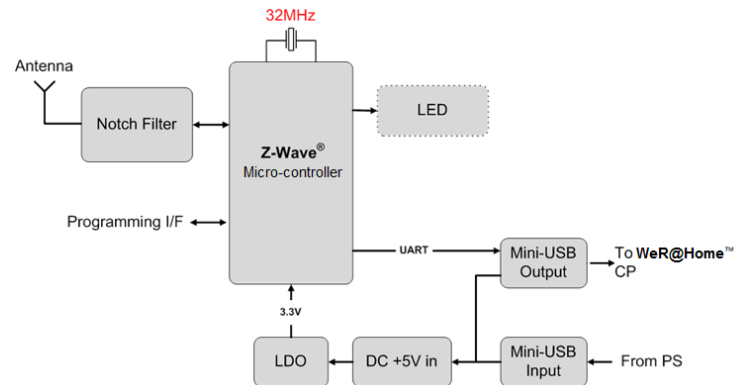
Operational Description

The ES800ZWE is a Z-Wave® controller dongle integrating into the WeR@Home™ Control Panel to allow incorporation of 3rd party Z-Wave® devices into the WeR@Home™ system and thus integrating Smart Home applications with Essence security system.

It features:

- Single element – A lightweight Z-Wave® controller
- Fully compatible with the WeR@Home™ system
- Powered by the WeR@Home™ Control Panel's power adaptor
- Low Power consuming
- Simple and fast pairing process
- Supported Z-wave® devices – binary switch (on/off/dimmer), thermostat and door lock
- Easy to install
- Utilizes cutting-edge technology
- Radio Modulation, Frequency, Data Rate and Nominal Radio Coverage:
 - 2FSK for 9.6/40 Kbps, 2GFSK for 100 Kbps
 - Main frequency – US 908.40/908.42MHz, EU 868.40/868.42MHz
 - SAW filter – US Center frequency = 908MHz with $BW \leq 20\text{MHz}$, EU 868MHz with $BW \leq 20\text{MHz}$
 - Data Rate – 9.6/40 Kbps (NRZ)
 - Nominal Radio Coverage – 400 meters

Block Diagram Description



The Control Panel's mains power adaptor provides the power directly to the Z-Wave® Extender board and through the board – to the Control Panel.

The board's Z-Wave®-specific micro-controller communicates data with the WeR@Home™ Control Panel through a UART serial port and interacts via the RF notch filter with the Z-Wave® end-devices.



ESUGSL001 v1.1

For more information, go to: <http://www.essence-grp.com/smart-living/wer-at-home>

