



# ***RASPBERRY Pi Z-WAVE MODULE***

## ***Model: Z-Wave Razberry-Pi***



### **Description:**

The RaZberry turns every Raspberry PI into a Z-Wave Home Automation Gateway. The bundle of hardware and precompiled Z-Wave wireless network management software waits to be completed by your own user interface running in a web browser or a mobile phone. The Z-Wave software offers an easy to understand and easy to use interface applying the well-known Javascript interface technology JSON on a built in web server. Writing your own home automation app was never easier and never more affordable.

### **Specifications:**

#### **Hardware**

- Sigma Designs 3102 Z-- - Wave Transceiver Module
- 32 Kbyte external EEPROM
- PCBA Antenna for 868/908 MHz
- Connects directly to Raspberry PI GPIO connector

#### **Chip-Firmware**

- Based on Reference design from Sigma Designs
- Enhanced functions such as
  - Backup and recovery
  - Vendor specific UI settings
  - Extended Node Information Frame (up to 20 Command Classes)
  - Optimized queue handling
  - Firmware update from the Raspberry PI OS

## Software

- Certified Z-Wave Middleware written in C
- Full Z-Wave based Smart Home Gateway
  - Network management (Include, Exclude, Reorganize)
  - Device interview and configuration
  - Management of direct associations between devices
  - Sensor access and polling
  - Operating actors and access actors status
  - Automation engine with rules, scripts, timers
  - Job queue management
- Tested against Raspbian “wheezy” OS
- Implements Z-Wave Network controller based on SDK 4.54
- Supported the following Commands Classes: Association, Basic, Battery, Configuration, Manufacturer Specific, Meter, Multichannel, Multichannel Association, MultiCommand, NodeNaming, SensorBinary, SensorMultilevel, SwitchAll, SwitchBinary, SwitchMultilevel, ThermostatMode, ThermostatSetpoint, Version, Wakeup
- Offers a native C level API plus web based JSON API
- Local scripting based on Google Java Script Engine V8
- Optimized data subscription model to minimize data traffic over the net
- Localization based on XML language files
- Utilizes the Pepper One Z-Wave device data base or user friendly configuration and association handling



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