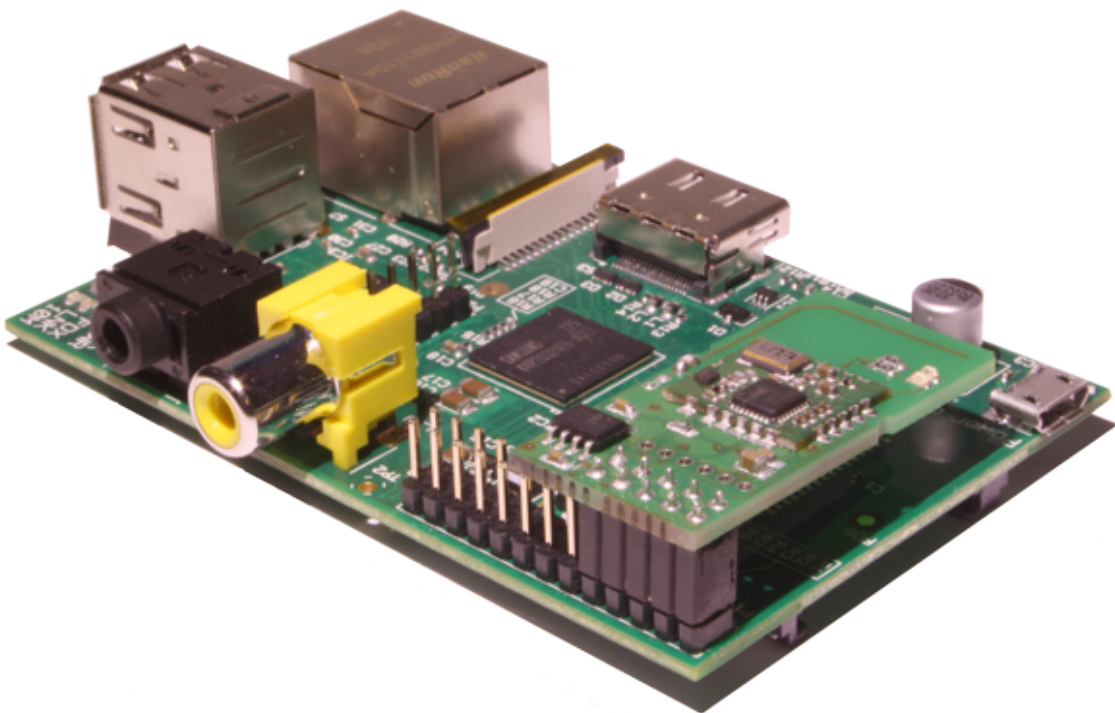# The RaZberry

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.

Contact and Order:
    Z-Wave.Me Switzerland
    Email: razberry@zwave.me

Z-WAVE>ME
BUILDS THE SMART HOME

Technical Data:

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