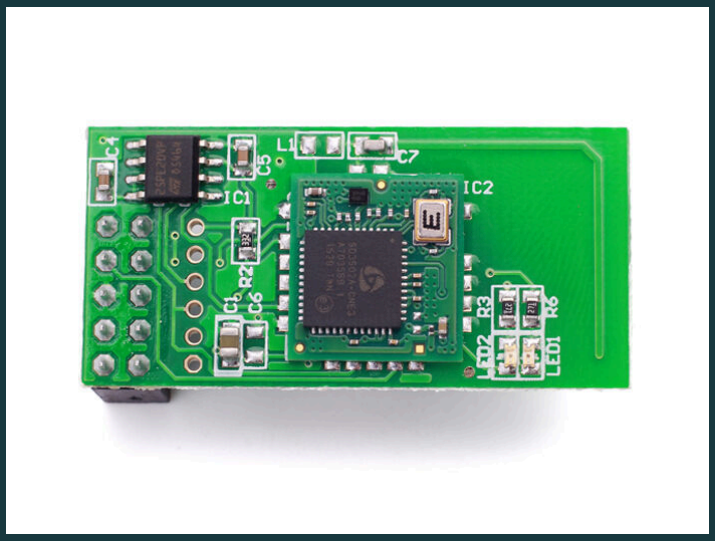
seeed studio

INDUSTRIAL PRODUCT DATASHEET

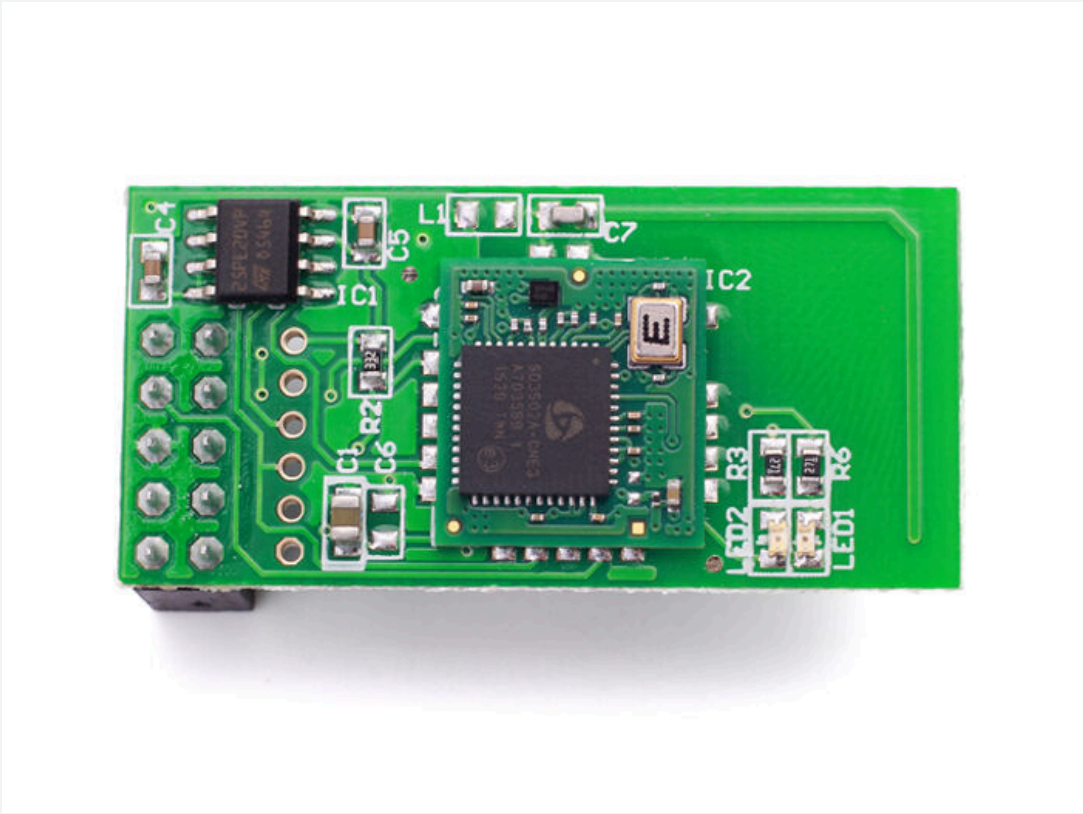
RaZberry Z-Wave

The RaZberry Z-Wave converts a Raspberry Pi into a Z-Wave Plus certified smart home gateway with local and remote web/mobile access and support for around 500 Z-Wave devices.

SKU	UPDATED	PRICE
113110001	2026-10-23 03:12:29	$59.00(Excl. VAT)



Overview



The RaZberry Z-Wave turns every Raspberry Pi into a Z-Wave home automation gateway by pairing the Sigma Designs ZM5202 Z-Wave transceiver module with precompiled Z-Wave network management software. It offers local and remote access via built-in web server JSON interfaces, including the Z-Way Expert UI, Z-Way Home Automation UI, native mobile apps, HTTP REST API, and Apple HomeKit support, with Z-Wave Plus certification and compatibility with around 500 devices.

Key Features

Introduction:

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.

Access the Gateway locally and remotely!

Whenever you access **find.zwave.me** again and a local RaZberry is found, clicking on the IP address will lead you right to your Smart Home User Interface.

Various User Interfaces of RaZberry

When going to http://YOURIP:8083 you will see a selection menu to choose the web based UI you like to work with.

The Z-Wave Expert UI

The Z-Wave Expert User Interface is designed for installers, technically savvy people and other users that know how to build and maintain a Z-Wave based wireless network.

Z-Way Home Automation UI

Z-Way Home Automation UI is for all the virtual devices, aside from Z-Wave devices, it also supports other third party devices.

iOS/Android/Blackberry Native Apps

Just visit the Google App store or the iOS app store for native apps with the name “Z-Way”

“Z-Way” in Apple Store.

“Z-Way” in Google App Store.

Features:

- Compatible with old Raspberry Pi Model B as well as with new Model B+
- Can work with around 500 devices on the market, including switches, sensors, meters, door locks, thermostats, IP cameras, ect.
- Support Apple HomeKit
- Pass Z-Wave Plus Certification
- Support remote upgrade, backup and restore the system
- Base on Google JS Engine V8 (used in Google Chrome Browser)
- Very solid programming environment, all scripts are open source
- Home automation modules implement the intelligence of the system
- HTTP REST API: allow other devices of different protocol to access Z-Way, vice versa
- Highly secured communication
- Easy to use interfaces

- Supported by the famous Pebble Smart Watch. Just check out the link to the **Pebble Store**
- Compatible with Raspberry Pi 2 (not tested against the new Raspberry Pi 2 but we don't expect problems)

Specification:

Dimension

- 0.79" x 1.57", 20mm x 40mm

Hardware

- Sigma Designs ZM5202 Z-Wave Transceiver Module (5th generation Z-Wave module),
- An external 32 K SPI flash for network data
- PCBA Antenna for 868 MHz (EU frequency)
- Connects directly to Raspberry PI GPIO connector

Chip-Firmware

- Based on Reference design from Sigma Designs
- Enhanced functions such as

o Backup and recovery function including network topology
o Extended Node Information Frame (up to 35 Command Classes)
o Optimized transmitting queue handling to speed up transmitting process
o Firmware update from the Raspberry PI OS level in the field
o Extended Wakeup Notification
o Handling to extend battery life time of battery operated devices in the network
o Watch Dog function

Software

- Certified Z-Wave Middleware written in C (Z-Wave Alliance Certification Number ZC10-14110009)
- Full Z-Wave based Smart Home Gateway

o Network management (Include, Exclude, Reorganize)
o Device interview and configuration
o Management of direct associations between devices
o Sensor access and polling
o Operating actors and access actors status
o Automation engine with rules, scripts and timers with scripts in JavaScript
o Job queue management

- Tested against Raspbian "wheezy" OS (both hard float and soft float) and OpenElecOS
- Implements Z-Wave Network controller based on SDK 6.51 or 4.54
- 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

Documents

- **RaZberry Introduction and Getting Started**

- Z-Way Users Documentation
- Z-Way Developers Documentation
- Z-Way End User License Agreement

Come to the **official site** and the **official forum** of RaZberry if you have any further questions.

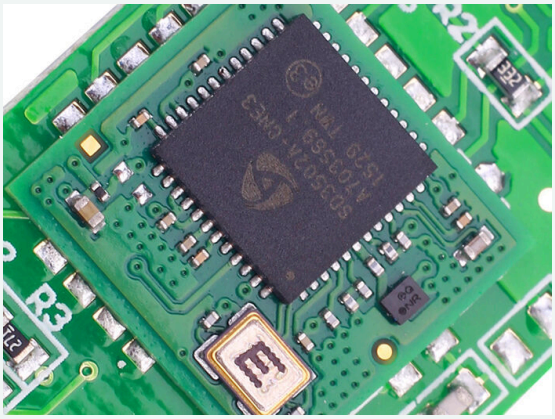
Sample Code

https://github.com/Z-Wave-Me

Note: *Raspberry Pi and its corresponding SD Card and Power source are not included in the package.

Product Gallery





Compliance & Logistics

HSCODE	8517709000

Resource Links

- https://www.seeedstudio.com/RaZberry-Z-Wave-p-2148.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com