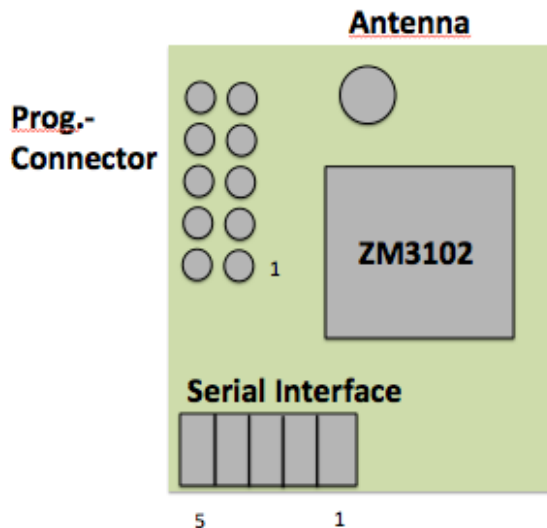


## Z-Wave.Me ZME\_Serial

### Description

The ZME-Serial is a Z-Wave transceiver board designed to be used together with host PCs. It implements a Z-Wave Static Controller connected to a PC via Serial Interface.



### Hardware Interfaces

Antenna: Connection to 868MHz Antenna, recommended Pigtail cable I-PEX -> reverse SMA

Programming Connector: compatible to Sigma Designs Programming Interface with the following pin out

- 1 3.3V
- 2 -
- 3 -
- 4 MOSI
- 5 -
- 6 MISO
- 7 GND
- 8 SCK
- 9 GND
- 10 ZM/RST

Serial Interface: This interface connect to a Serial TTL level Interface with the following pinout:

- 1 +3.3V
- 2 TXD
- 3 RXD
- 4 GND
- 5 -

### Firmware:

The firmware on the Sigma Designs Z-Wave transceiver chip is based on the original design recommendations of Sigma Designs published in the System Development Kit 4.54 (*This document is accessible under NDA with Sigma Designs only*). Compared to the standard firmware design used by almost all Z-Wave USB Sticks and other Z-Wave Host Interface hardware, the RaZberry firmware offers of several extensions and enhancements:

- Backup and recovery function including network topology
- Extended Node Information Frame (up to 20 Command Classes possible)
- Optimized transmitting queue handling to speed up transmitting process
- Firmware update from the Raspberry PI OS level in the field
- Extended Wakeup Notification Handling to extend battery life time of battery operated devices in the network
- Watch Dog function

### Host Software

Since its backward compatible to the Sigma Designs Serial API the Module can be used with every standard compatible Z-Wave Software such as Homeseer, IP-Symcon, etc. To use the enhanced functions mentioned in the firmware section the module need to be used with an implementation of Z-Wave.Me Z-Way, e.g. Z-Cloud.