



# 1 Wire Pi Zero

## Features

- 1-Wire® to I2C host interface with ESD protection diode.
- Stackable with other Raspberry Pi accessory boards.
- Buffered 5V I2C port.
- External 5V power input for 1-Wire® interface.
- I2C address selection via solder jumpers.

The 1 Wire Pi Zero from AB Electronics UK is a communication board supporting the 1-Wire® protocol designed for use on the Raspberry Pi Zero. A 5V buffered I2C port is also provided on the board. The 1 Wire Pi Zero can be securely fitted to your Raspberry Pi using our mounting kit pack.

The 1-Wire® port on the 1 Wire Pi Zero is based around a DS2482-100 I2C to 1-Wire® bridge device. The DS2482-100 provides bi-directional protocol conversion between the I2C port on th

Raspberry Pi and any attached 1-Wire® slave devices. An ESD Protection Diode is used to protect the 1 Wire Pi Zero and Raspberry Pi from electrostatic spikes on the 1-Wire® port. Connections to the 1-Wire® port can be made through the RJ-12 socket or the solder points on the PCB. We have a knowledge base article for configuring and using the 1-Wire® port on your Raspberry Pi.

The 1 Wire Pi Zero is powered through the host Raspberry Pi using the GPIO port and extended pins on the GPIO connector allow you to stack the 1 Wire Pi Zero along with other expansion boards.

A 5V input port is also provided allowing you to use an external power supply on the 1-Wire® interface, reducing the load on the Raspberry Pi. If you choose to use the external 5V input please remove the solder jumper on the board to isolate the Raspberry Pi 5V bus. A detailed tutorial has been written by Jack Creasey, author of Raspberry Pi Essentials, for the setup of OWFS with the 1 Wire Pi and 1 Wire Plus boards..

