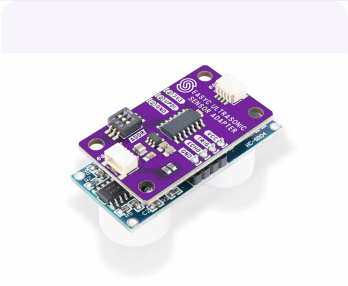


PRODUCT DATASHEET

Ultrasonic Sensor With Qwiic

333001

The Ultrasonic Sensor with Qwiic measures distances from 2cm to 400cm with high accuracy, making integration easy with its digital output.

Full product documentation, files and tutorials: **solde.red/333001**

CORE ATTRIBUTES

SKU	333001
WEIGHT	13 g
BARCODE	732388678303

DESCRIPTION

The **HC-SR04 ultrasonic sensor** is an affordable and super-popular sensor that measures the distance between itself and an object located in front of the sensor. Very simple to use, it returns the distance in centimeters or inches. In this variation, it comes on a board with an Attiny microcontroller that sends readings from the sensor as a digital signal via the Qwiic connector to the microcontroller, which makes its connections a piece of cake.

TECHNICAL DETAILS

- **Range:** 2cm - 400cm
- **Accuracy:** 1cm
- **Measurement angle:** 15 degrees
- **Voltage:** 5V
- ATTINY404 microcontroller onboard
- qwiic connectors
- **Dimensions:** 38 × 22 mm / 1.5 × 0.9 inch

SPECIFICATIONS

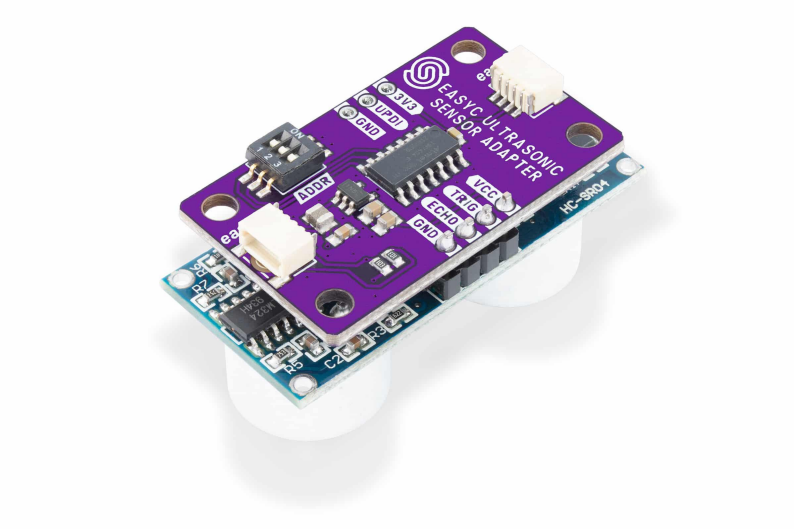
INTERFACE	I2C
QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x30
I2C ADDRESS CHANGEABLE	Yes
BREADBOARD COMPATIBLE	Yes

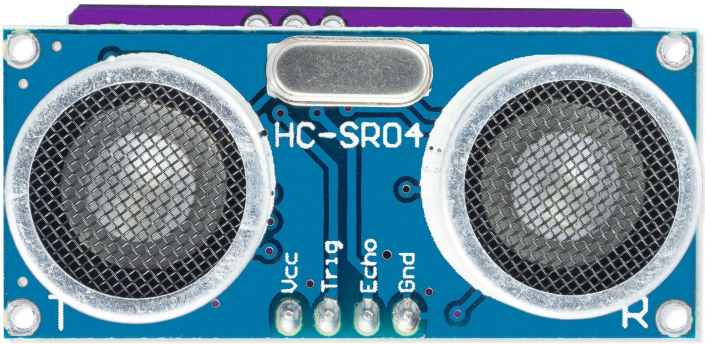
MEASUREMENT TYPES	Distance
MEASUREMENT RANGE	2cm - 400cm
MEASUREMENT ACCURACY	1cm
IC PART NUMBER	HC-SR04
MCU PART NUMBER	ATTINY404
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	3V3 Or 5V

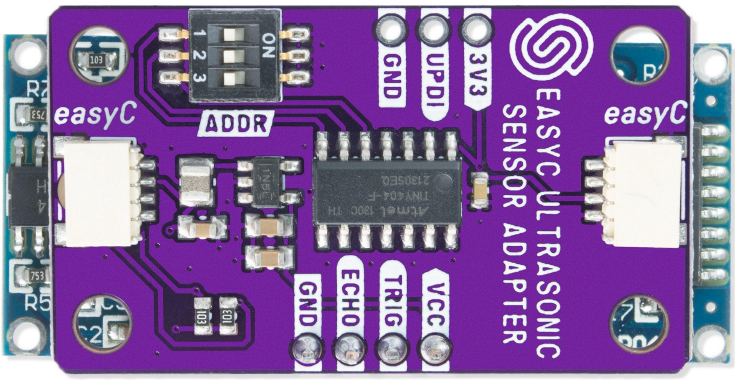
LINKS

Full Documentation	https://docs.soldered.com/hc-sr04/overview/
Open Source Hardware Files	https://github.com/SolderedElectronics/Ultrasonic-sensor-with-easyC-hardware-design
Arduino: Get Started	https://docs.soldered.com/hc-sr04/arduino/geting-started/
Arduino Library	https://github.com/SolderedElectronics/Soldered-Ultrasonic-Sensor-easyC-Arduino-Library
Hardware Details	https://docs.soldered.com/hc-sr04/hardware/
Arduino Library Documentation	https://docs.soldered.com/hc-sr04/arduino/examples/
MicroPython Module	https://github.com/SolderedElectronics/Soldered-UltrasonicSensor-MicroPython-Library
mim_package	https://checkmim.com/packages/solderedelectronics+Soldered-UltrasonicSensor-MicroPython-Library
Pinout	https://cms.soldered.com/products/333001/media/333001_pinout-png_a58c73.svg

GALLERY


EASYC ULTRASONIC SENSOR ADAPTER
3V3
UPDI
GND
ADDR
VCC
TRIG
ECHO
GND
HC-SR04


HC-SR04
Vcc
Trig
Echo
Gnd


easyC
ADDR
ON
GND
UPDI
3V3
EASYC ULTRASONIC SENSOR ADAPTER
easyC
GND
ECHO
TRIG
VCC