

SHTC3 (Qwiic) Humidity Sensor Breakout

SEN-16467

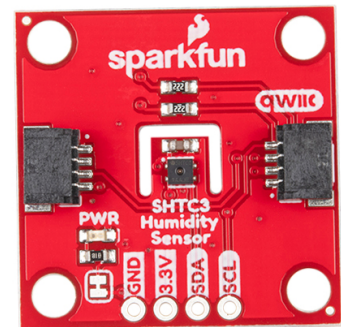
Product Overview

05-24-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The SparkFun SHTC3 Humidity Sensor Breakout Board (SEN-16467) is used to create a humidior control system project. The SHTC3 humidity sensor board incorporates a low-cost, easy-to-use, and highly accurate digital humidity and temperature sensor. This humidity sensor features an I²C interface for communication that utilizes the Qwiic system. The SHTC3 humidity sensor enables greater flexibility than its predecessor and offers a 1.62V to 3.6V supply voltage range and $\pm 2\%$ RH accuracy. This breakout board has a built-in 2.2k Ω pullup resistors for I²C communication and operates from -40°C to 125°C temperature range.

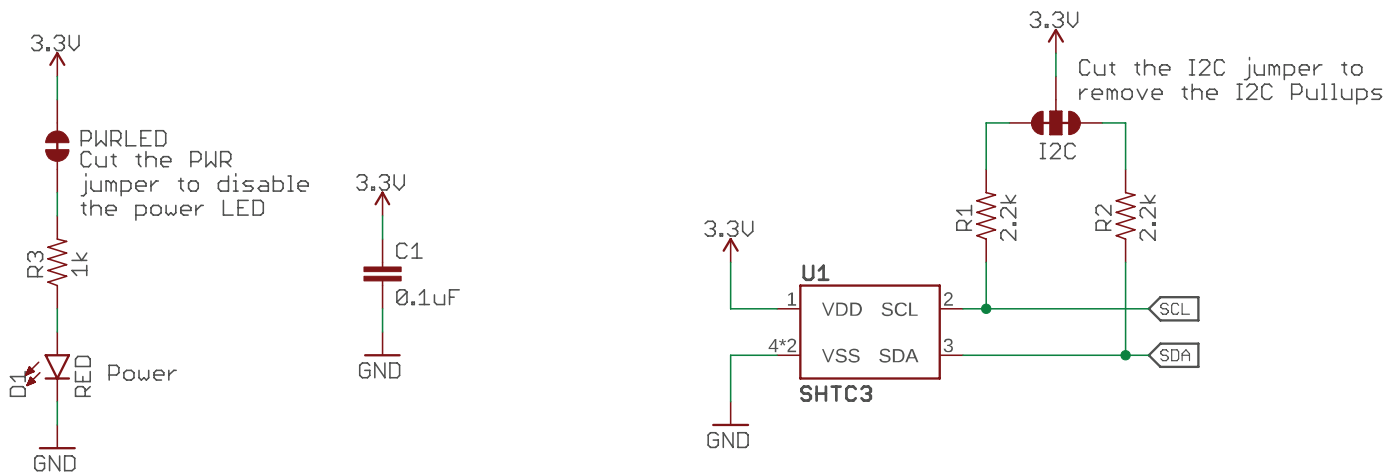


Features

- Uses I²C interface (Qwiic-enabled):
 - 0x70 I²C address
 - 2x Qwiic connectors
- Operating voltage range:
 - 1.62V to 3.6V
 - Typically, 3.3V if using the Qwiic cable
- Relative humidity:
 - 0% to 100% operating range
 - $\pm 2\%$ RH typical accuracy
 - 0.01% RH resolution
- Temperature:
 - -40°C to 125°C operating range
 - $\pm 0.2^{\circ}\text{C}$ typical accuracy
 - 0.01°C resolution
- Typical current consumption (varies based on mode)
 - 4.9 μA to 430 μA (normal mode)
 - 0.5 μA to 270 μA (low power mode)

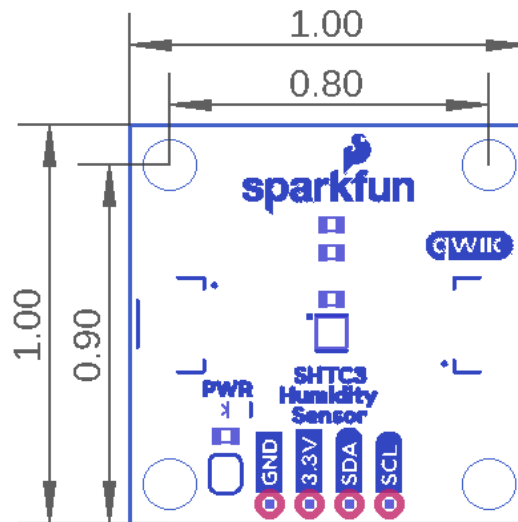
Schematic

Humidity Sensor
VIN: 1.62-3.6V



7-bit unshifted I2C address: 0x70

Board Dimensions (in inches)



Mouser Part Number

[View Part](#)

To learn more, visit

<https://www.mouser.com/new/sparkfun/sparkfun-shtc3-humidity-sensor-breakout-board/>