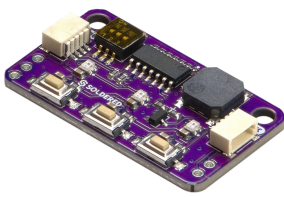


PRODUCT DATASHEET



Soldered Button, LED & Buzzer Board with Qwiic

333182

Three pushbuttons, three WS2812B RGB LEDs and a passive buzzer on one I2C board with Qwiic connectors and eight selectable addresses.

Full product documentation, files and tutorials: solde.red/333182

CORE ATTRIBUTES

SKU 333182

DIMENSIONS 38.0 × 22.0 × — mm

BARCODE 732388648603

DESCRIPTION

The **Button, LED & Buzzer Board with Qwiic** puts three pushbuttons, three RGB LEDs and a buzzer on one small board. An onboard **ATtiny404** handles all of them, so your microcontroller needs only the two I2C lines.

Connect it with a Qwiic cable, no soldering needed. Your code reads which buttons are pressed, sets each of the three **WS2812B** LEDs to any colour, and plays a tone on the **passive buzzer** at the frequency you choose, in Hz.

Three switches on the board set the I2C address, from **0x30 to 0x37**. You can put up to eight boards on the same bus, and the second Qwiic connector passes the bus on to the next one.

The Soldered Arduino library handles the I2C communication for you and comes with examples for the buttons, the LEDs and the buzzer.

Note:

- The board runs on 3.3 V, supplied through the Qwiic connector.
- With all three switches set to OFF, the board uses the default address 0x30.

TECHNICAL DETAILS

- **Controller:** ATtiny404 (I2C slave)
- **Inputs:** 3 pushbuttons with 10 kΩ pull-up resistors and 100 nF debounce capacitors
- **LEDs:** 3 × WS2812B-2020 RGB, 8 bits per colour channel
- **Buzzer:** passive magnetic buzzer (MLT-7525), transistor driven, frequency set in Hz
- **Interface:** I2C, default address 0x30
- **Address selection:** 3-position DIP switch, 0x30 - 0x37
- **Connectors:** 2 × Qwiic, 2-pin SDA/SCL header, UPDI header for the ATtiny404 firmware

- **I2C pull-ups:** 10 kΩ onboard
- **Supply voltage:** 3.3 V
- **Dimensions:** 38 × 22 mm
- **Mounting holes:** 2 × 3.2 mm

SPECIFICATIONS

INTERFACE	I2C
QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x30
I2C ADDRESS CHANGEABLE	Yes
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	WS2812B-2020
MCU PART NUMBER	ATTINY404
SUPPLY VOLTAGE MIN V	3.3
SUPPLY VOLTAGE MAX V	2.3

DOCUMENTS

Main IC Datasheet · EN	https://cms.soldered.com/products/333182/documents/ic-datasheet/333182_ic-datasheet_6835a6.pdf
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LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-Button-LED-Buzzer-Board-Arduino-Library
Full Documentation	https://docs2.soldered.com/soldered-button-led-buzzer-board-with-qwiic/
Pinout	https://cms.soldered.com/products/333182/media/333182_pinout-png_55ae9b.png

GALLERY

