

# NiftyDrum

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## Official Documentation

*Ronna Technologies*

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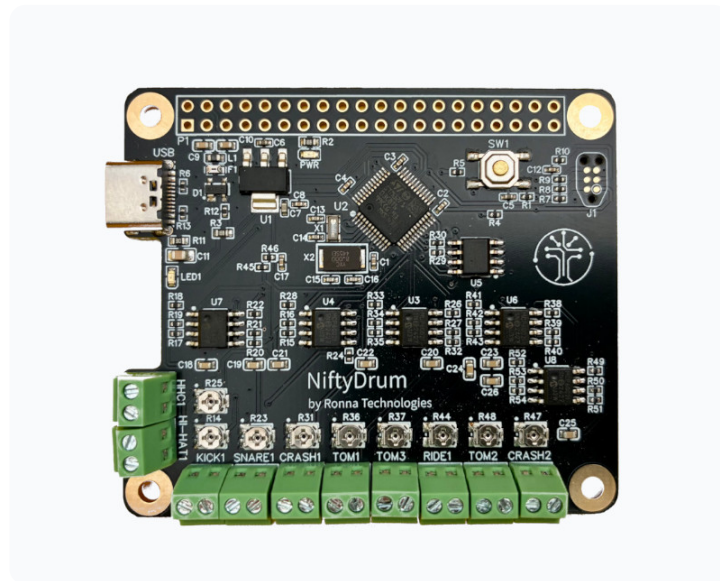
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## 1. NiftyDrum Specifications

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### 1.1 Description

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NiftyDrum is a trigger to MIDI module. What that means is that you can plug up to 9 piezos and 1 FSR into the 10 dedicated terminal blocks, and get MIDI messages over a USB-C connection.

### 1.2 How it works

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- Connect up to 9 piezos and 1 FSR to the terminal blocks
- Plug into your DAW or drum module via USB
- Use our GUI for trigger parameters, mapping and velocity shaping
- Play — notes stream out instantly with zero perceivable latency

### 1.3 Specifications

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#### 1.3.1 Hardware

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- 9 Piezo inputs
- 1 FSR input (hi-hat pedal)
- Sensor connector type: terminal block
- USB type C
- Dimensions: 65x56.5mm

### 1.3.2 Performance

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- Latency: <2.5ms
- Sample rate: >10kHz
- Velocity sensitivity: 127 levels

### 1.3.3 Software

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- Cross platform: Windows, Mac, Linux
- User interface: Web-based
- Firmware updates via USB
- MIDI messages: notes, CC

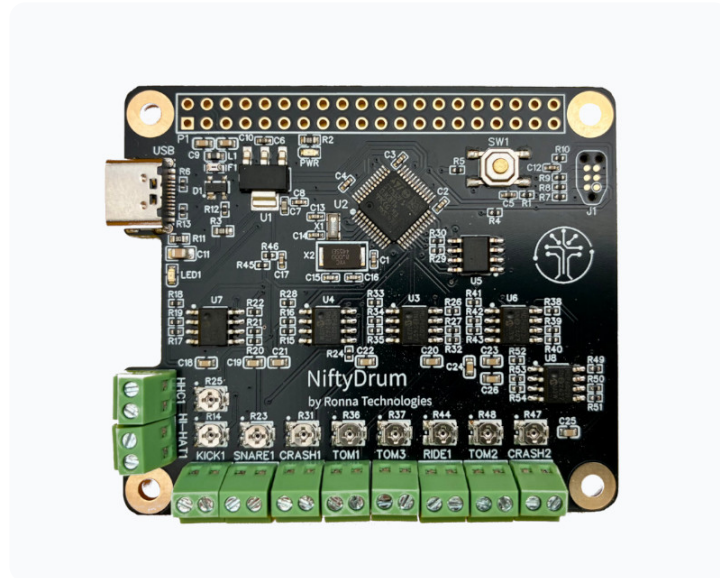
## 2. The Board

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### 2.1 Description

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The NiftyDrum board is shown by the following image:



This board has different interfaces:

- Terminal blocks to connect sensors
- USB type C to connect to a laptop or PC
- 9 potentiometers
- Two LEDs
- A reset button
- A Raspberry Pi-compatible GPIO
- 4 mounting holes

### 2.2 How to connect the sensors

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The board offers 9 piezo inputs, to which 9 single-zone pads can be connected.

## 3. The App

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