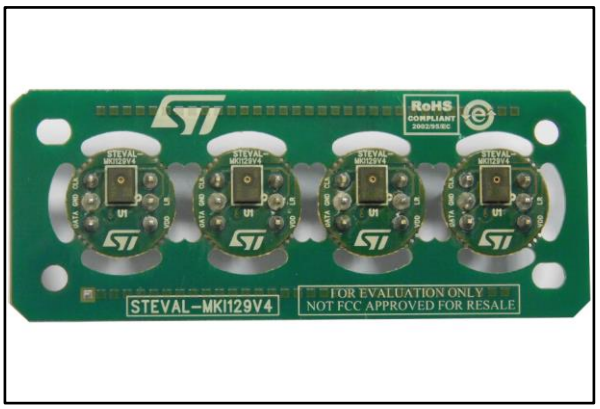
# STEVAL-MKI129V4

## Microphone coupon board based on the MP34DT04 digital MEMS microphone

Data brief




## Features

- 4x MP34DT04 top port digital MEMS microphones
- Daughterboard to be used with the STEVAL-MKI126Vx kit and X-NUCLEO-CCA02M1, an STM32 Nucleo expansion board
- Vsupply from 1.6 to 3.6 V
- 120 dB SPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 64 dB of SNR
- -26 dB FS sensitivity
- RoHS compliant

## Description

The STEVAL-MKI129V4 is a daughterboard designed to be used in conjunction with the STEVAL-MKI126Vx (Smart Voice) kit, containing four MP34DT04 digital MEMS microphones.

The coupon concept allows easy performance testing of the ST MEMS microphones.

When plugged into the X-NUCLEO-CCA02M1 expansion board, it is able to export the four additional PDM for any need (NBW algorithms detection).

When plugged into the Smart Voice board, it is possible to detach the single PCB hosting each one.

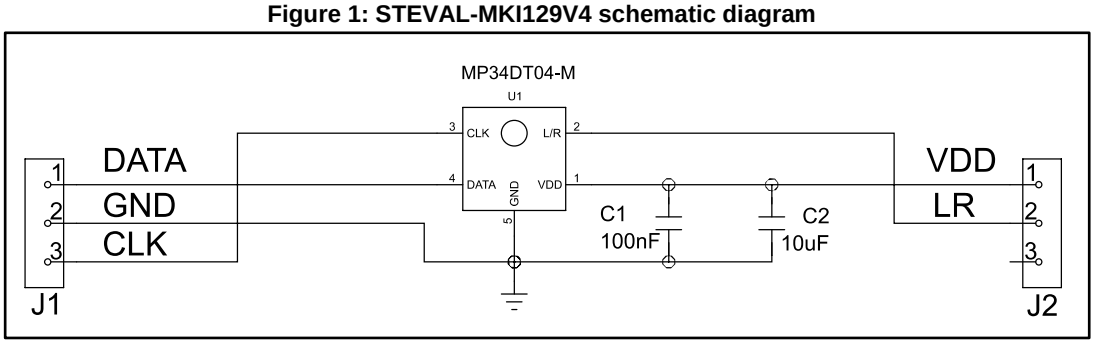


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# 1 Schematic diagram

**Figure 1: STEVAL-MKI129V4 schematic diagram**



# 2 Revision history

**Table 1: Document revision history**

| Date | Version | Changes |
|---|---|---|
| 06-Oct-2016 | 1 | Initial release |
| 14-Oct-2016 | 2 | Updated board photo on the cover page |

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