

# STEVAL-MIC003V1

Data brief

## Microphone coupon board based on the IMP34DT05 digital MEMS





- 4 x IMP34DT05 top port digital MEMS microphones
- Daughterboard to be used with X-NUCLEO-CCA02M1
- Vsupply from 1.6 to 3.6 V
- 122.5 dBSPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 64 dB of SNR
- Sensitivity -26 dBFS ±3 dB
- RoHS compliant

### Description

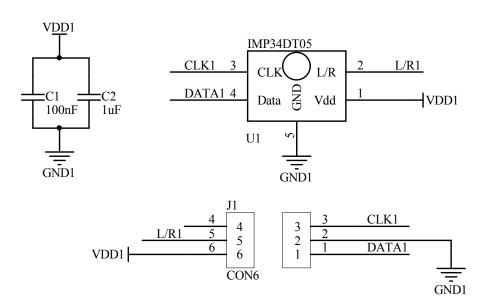
The STEVAL-MIC003V1 daughterboard is designed to be used in conjunction with the X-NUCLEO-CCA02M1 expansion board; it is able to export the four additional PDMs for any user application requirement (NBW algorithm detection).

Summary table		
Microphone coupon board based on the IMP34DT05 digital MEMS	STEVAL- MIC003V1	
Digital MEMS microphones expansion board based on MP34DT01-M for STM32 Nucleo	X-NUCLEO- CCA02M1	
Ultra-compact, low-power, omnidirectional, digital MEMS microphone built with a capacitive sensing element and an IC interface that is offered with a 10 years longevity commitment	IMP34DT05	





# 1 Schematic diagram



#### Figure 1. STEVAL-MIC003V1 circuit schematic

## **Revision history**

#### Table 1. Document revision history

Date	Version	Changes
15-May-2018	1	Initial release.



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