

## STEVAL-MKI155V1

# Microphone coupon board based on the MP45DT02-M digital MEMS microphone

Data brief



### **Description**

The STEVAL-MKI155V1 board is a daughterboard to be used with the STEVAL-MKI126Vx (Smart Voice) kit, containing 4 MP45DT02-M digital MEMS microphones. The coupon concept allows easy performance testing of ST MEMS microphones. When connected to the Smart Voice board, it is possible to detach the single PCBs hosting each microphone.

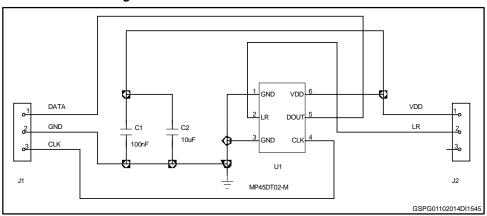
#### **Features**

- 4 x MP45DT02-M top port digital MEMS microphones
- Functions as a daughterboard for use with STEVAL-MKI126Vx kit
- V supply from 1.64 to 3.6 V
- 120 dBSPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 61 dB of SNR
- Sensitivity -26 dBFS
- RoHS compliant

Schematic diagram STEVAL-MKI155V1

# 1 Schematic diagram

Figure 1: STEVAL-MKI155V1 circuit schematic



STEVAL-MKI155V1 Revision history

# 2 Revision history

Table 1: Document revision history

Date	Rev	Changes
01-Oct-2014	1	First release.
13-Feb-2015	2	Updated board photo in cover page.

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