

Dual MP23DB01HP MEMS mic daughter board compatible with STM32H7 discovery kit



Features

- Two MP23DB01HP bottom port digital MEMS microphones
- Voltage supply from 1.52 to 3.6 V
- 135 dB SPL acoustic overload point
- Omnidirectional sensitivity
- Two different operation mode (low power and performance mode)
- Sensitivity -41 dBFS \pm 1 dB
- RoHS compliant

Description

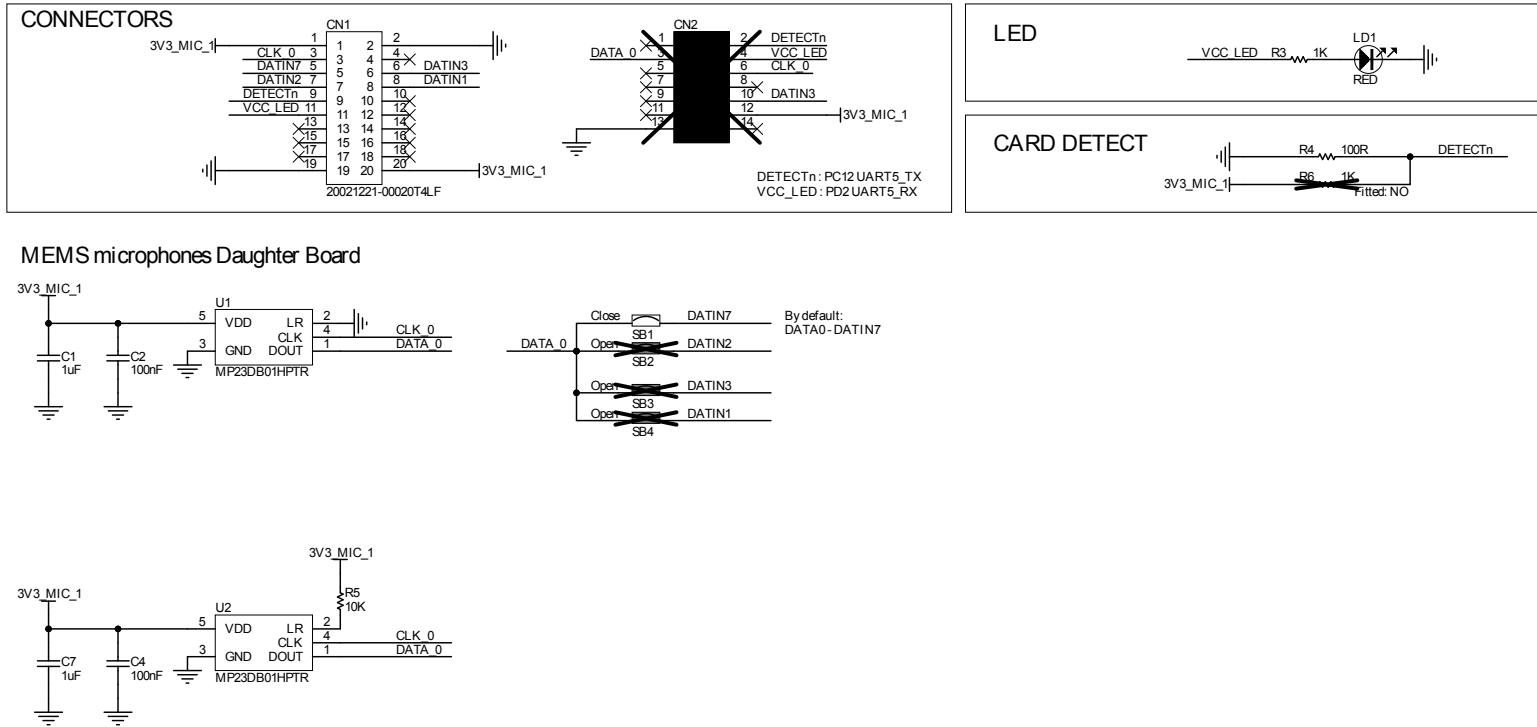
The [STEVAL-MIC008A](#) is a daughterboard containing two [MP23DB01HP](#) MEMS microphones.

The coupon concept allows easy performance testing of MEMS microphones. The board has been realized as a daughter board of all STM32H7 discovery kit (example [STM32H747I-DISCO](#), [STM32H735G-DK](#), [STM32H7B3I-DK](#)).

Product summary	
Dual MP23DB01HP MEMS mic daughter board compatible with STM32H7 discovery kit	STEVAL-MIC008A
MEMS audio sensor multi performance mode digital microphone	MP23DB01HPTR
Discovery kit with STM32H735IG MCU	STM32H735G-DK
Discovery kit with STM32H7B3LI MCU	STM32H7B3I-DK
Applications	Wearables

1 Schematic diagram

Figure 1. STEVAL-MIC008A circuit schematic



2 Board versions

Table 1. STEVAL-MIC008A versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MIC008AA ⁽¹⁾	STEVAL\$MIC008AA schematic diagrams	STEVAL\$MIC008AA bill of materials

1. This code identifies the STEVAL-MIC008A evaluation board first version.

Revision history

Table 2. Document revision history

Date	Revision	Changes
03-Mar-2023	1	Initial release.

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