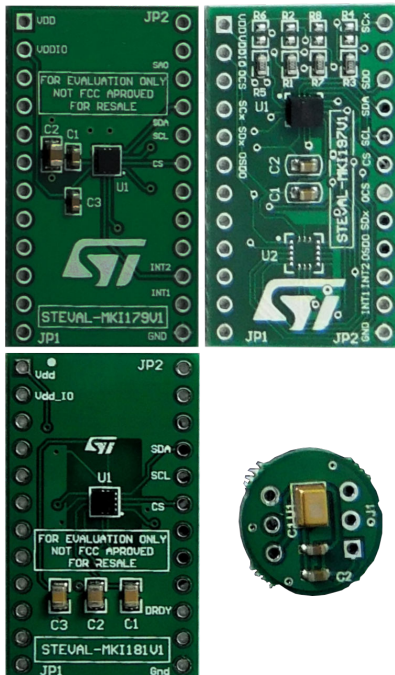


MEMS sensor sample kit



Features

- [STEVAL-MKI179V1](#) adapter board for [LIS2DW12](#):
 - 3-axis MEMS accelerometer
- [STEVAL-MKI197V1](#) adapter board for [LSM6DSOX](#):
 - 6-axis IMU (inertial measurement unit) with embedded AI: always-on 3-axis accelerometer and 3-axis gyroscope
- [STEVAL-MKI181V1](#) adapter board for [LIS2MDL](#):
 - Digital output magnetic sensor: ultralow-power, high-performance 3-axis magnetometer
- [STEVAL-MIC004V1](#) coupon board for [MP23ABS1](#):
 - MEMS analog bottom-port microphone

Description

The [STEVAL-MKIT01V2](#) is a MEMS sensor sample kit containing four sensor adapter boards that can be evaluated in standalone mode by simply connecting an I²C cable and an analog cable for the microphone.

The [STEVAL-MKIxxxV1](#) evaluation boards can be plugged into a standard DIL 24 socket and can be used together with the [STEVAL-MKI109V3](#) mother board, based on the [STM32F401VET6](#) microcontroller, for a more in-depth evaluation.

The [STEVAL-MIC004V1](#) is a daughter board containing 1 coupon board with [MP23ABS1](#) microphone. This board can be plugged onto an [X-NUCLEO-AMICAM1](#) expansion board.

Product summary	
LIS2DW12 adapter board for a standard DIL24 socket	STEVAL-MKI179V1
LSM6DSOX adapter board for a standard DIL24 socket	STEVAL-MKI197V1
LIS2MDL adapter board for a standard DIL24 socket	STEVAL-MKI181V1
Microphone coupon board based on the MP23ABS1 analog MEMS microphone	STEVAL-MIC004V1
Applications	Audio and Video

Revision history

Table 1. Document revision history

Date	Version	Changes
05-Mar-2020	1	Initial release.
07-Oct-2025	2	Updated cover image and Section Description.

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

The purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of the purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers' market segment, the purchasers shall contact ST for more information.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2025 STMicroelectronics – All rights reserved