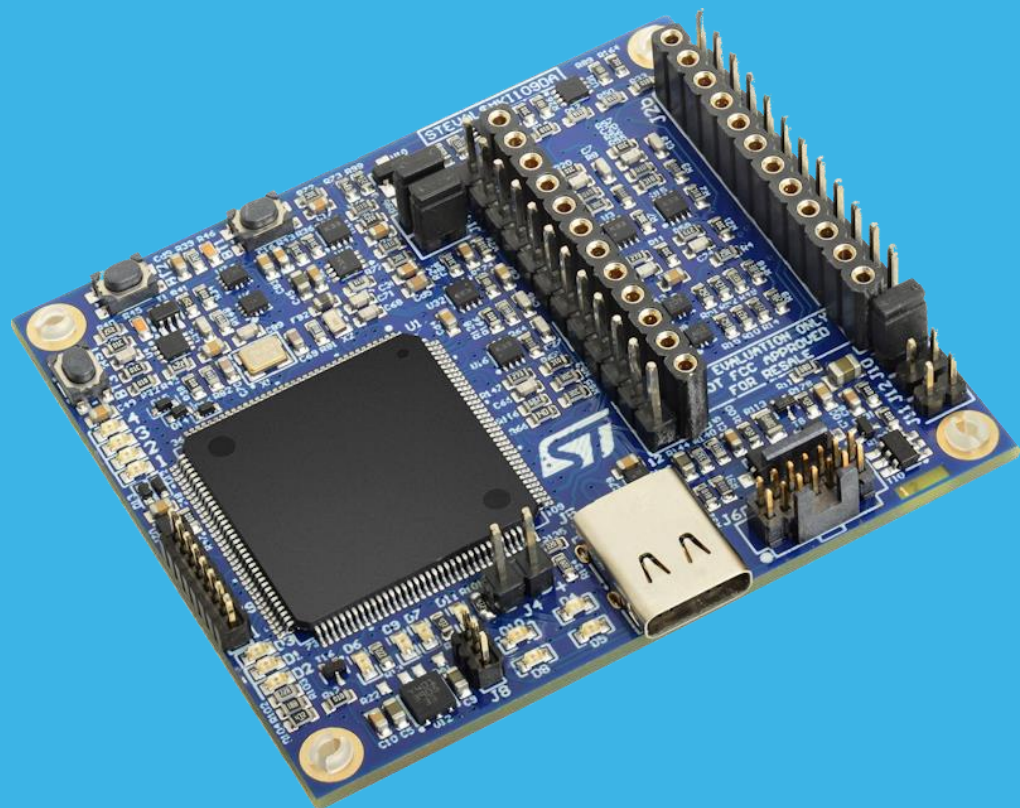




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STEVAL-MKI109D Professional MEMS tool

What's Professional MEMS tool?

The evaluation board for all ST MEMS sensors



Rapid plug-and-play **evaluation** of the ST MEMS sensors



Compatible with all available ST MEMS **DIL24 adapter boards**



Compatible with **MEMS Studio** to manage and analyze sensor data on your PC

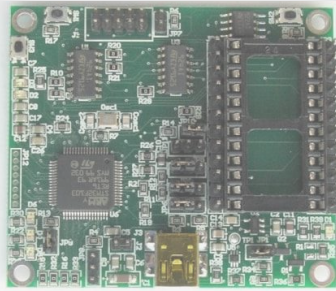
MEMS ecosystem evolution

Hardware

Software

STEVAL-MKI109V2

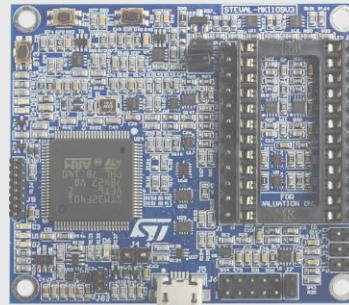
- Based on STM32F103
- Obsolete



2011

STEVAL-MKI109V3

- Based on STM32F4
- NRND



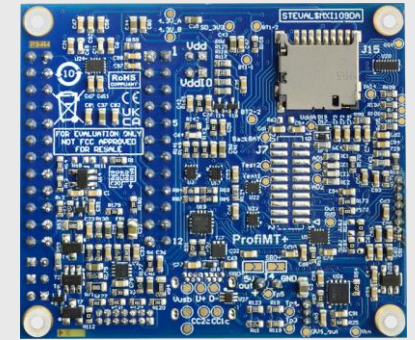
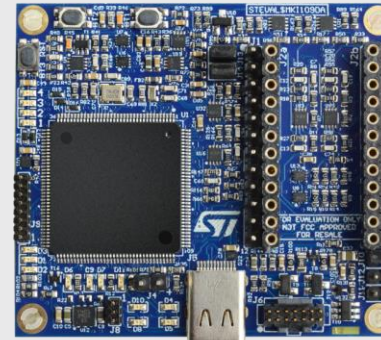
2016



2024

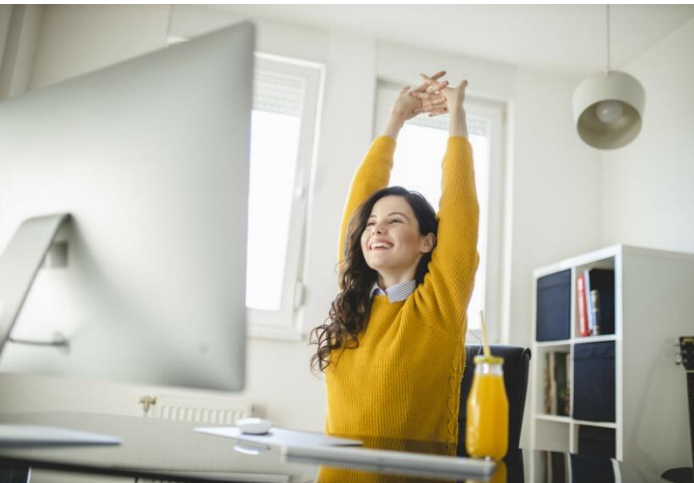
STEVAL-MKI109D

- Based on high-performance STM32H5 MCU
- **Active board**



2025

Why Professional MEMS tool?

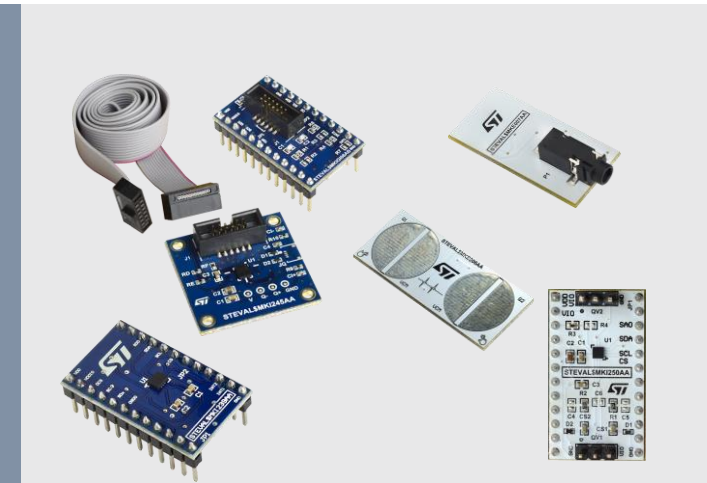


Easy to use

Plug the board to your PC and start your evaluation

Wide support

All the MEMS sensors in the ST portfolio are supported through dedicated DIL24 adapter boards.

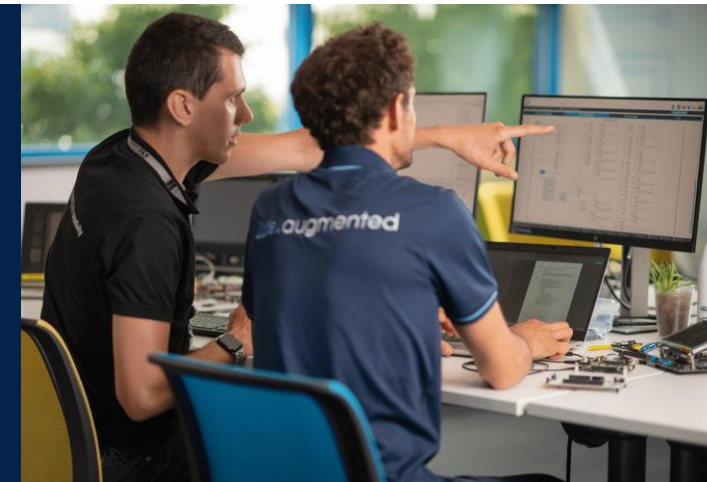


Advanced analysis

Perform advanced analysis with power settings, communication protocols management, current measurements

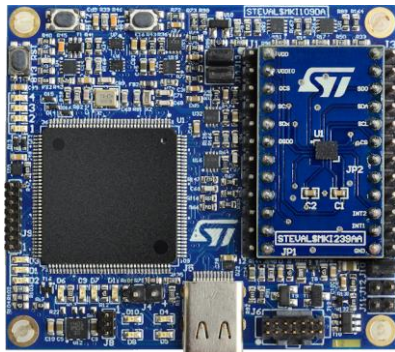
Advanced debugging

Test your configuration with real-time visualization and debugging tools available in MEMS Studio



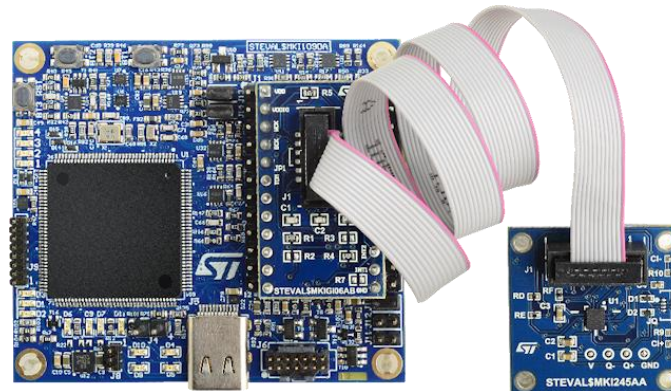
DIL24 adapter boards

Adapter



- Standard DIL24 adapter
- Can include different consumer, industrial, or automotive sensors

Remote kit



- Allows placing the sensor in a different position compared to being plugged on the main board
- Suit many industrial applications

vAFE kit



- Kits containing electrodes that can be stacked on the standard DIL24 adapter
- Used for detecting biopotential signals

Start your evaluation journey



1

Plug the DIL24 adapter board to the **STEVAL-MKI109D board** and connect it to the PC through a **USB-C** cable

2

Launch **MEMS Studio** and select the DIL24 board from the list

3

Configure the sensor and click “Start”

4

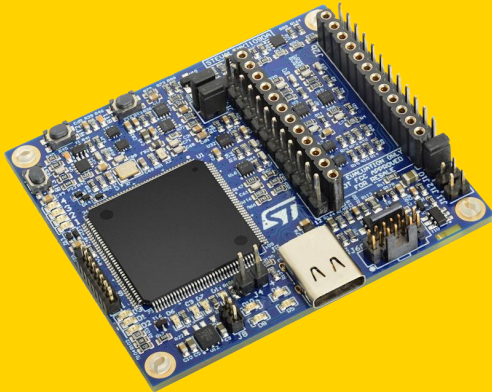
Evaluate sensor data using windows and plots

5

Explore the **advanced features** of ST MEMS sensors

Resources for Professional MEMS tool

STEVAL-MKI109D: The evaluation board for all ST MEMS sensors



Get the **board** now!

eStore



Get the [data brief](#) and the [user manual](#)



Download the software [MEMS Studio](#)



Find answers in [ST's MEMS & Sensors community](#)

Our technology starts with You



Find out more at www.st.com/MEMSstudio

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