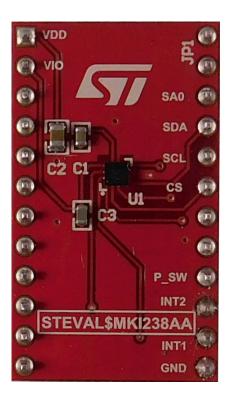




LIS2DUX12 adapter board for a standard DIL24 socket



Features

- Complete LIS2DUX12 pinout for a standard DIL24 socket
- Fully compatible with the STEVAL-MKI109V3 motherboard
- RoHS compliant

Description

The STEVAL-MKI238A is an adapter board designed to facilitate the evaluation of the LIS2DUX12 3-axis smart accelerometer in the MEMS and sensors product portfolio. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application. The STEVAL-MKI238A can be plugged into a standard DIL24 socket. It provides the complete LIS2DUX12 pinout and embeds the required decoupling capacitors on the VDD power supply line.

The adapter is supported by the STEVAL-MKI109V3 motherboard, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC.

Another option is to plug the adapter in the X-NUCLEO-IKS01A3 board to develop the proper application.

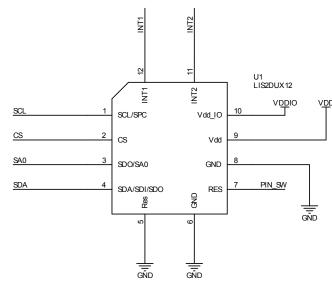
MEMS-Studio is a complete software solution for the evaluation and programming of all MEMS sensors and it is available for Linux, macOS, and Windows operating systems.

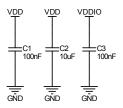
You can also use the downloadable graphical user interface Unico-GUI or dedicated software routines for customized applications.

Product summary		
LIS2DUX12 adapter board for a standard DIL24 socket	STEVAL- MKI238A	
Ultralow-power 3-axis smart accelerometer with AI, antialiasing filter, and advanced digital features	LIS2DUX12	
MEMS adapter motherboard based on the STM32F401VE	STEVAL- MKI109V3	
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO- IKS01A3	
Applications	Wearables	

Header 12X2_n









2 Board versions

Table 1. STEVAL-MKI238A versions

Finished good	Schematic diagrams	Bill of materials	
STEVAL\$MKI238AA (1)	STEVAL\$MKI238AA schematic diagrams	STEVAL\$MKI238AA bill of materials	

^{1.} This code identifies the STEVAL-MKI238A evaluation board first version.

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Revision history

Table 2. Document revision history

Date	Revision	Changes	
19-Jan-2023	1	Initial release	
09-May-2024	2	Updated Description to include MEMS-Studio software solution Minor textual updates	

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