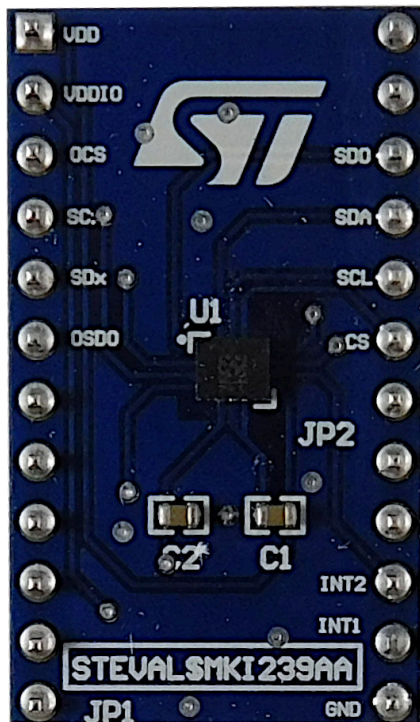


LSM6DSV adapter board for a standard DIL24 socket



Features

- Complete LSM6DSV pinout for a standard DIL24 socket
- Fully compatible with the STEVAL-MKI109D evaluation platform
- RoHS compliant

Description

The **STEVAL-MKI239A** is an adapter board designed to facilitate the evaluation of the **LSM6DSV** 6-axis IMU (inertial measurement unit) 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-MKI239A** can be plugged into a standard DIL24 socket. The adapter provides the complete **LSM6DSV** pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

This adapter is supported by the **STEVAL-MKI109D** evaluation platform, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable **MEMS Studio** graphical user interface or dedicated software routines for customized applications.

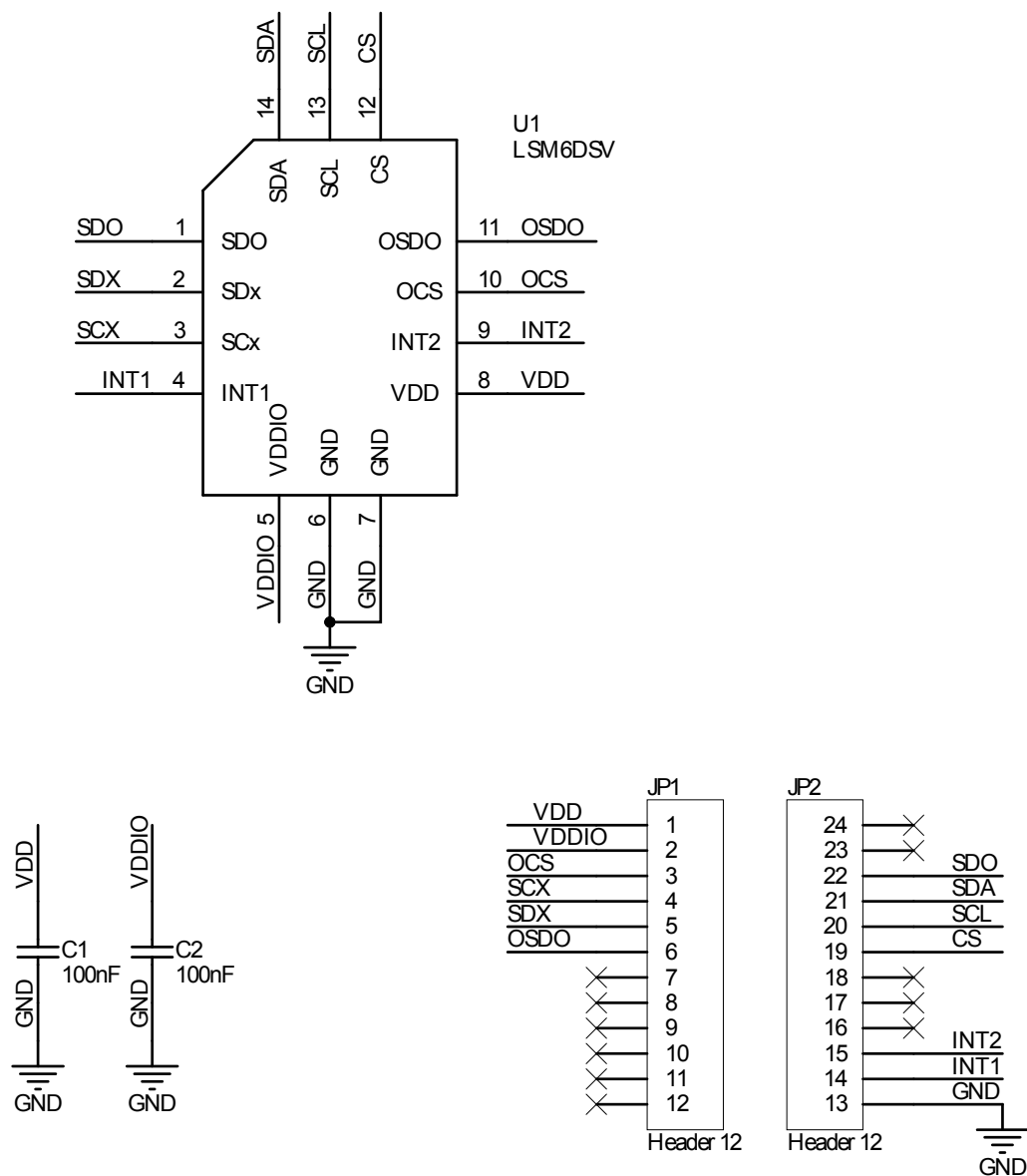
The adapter board can also be plugged into the **X-NUCLEO-IKS4A1** expansion board.

Product summary

LSM6DSV adapter board for a standard DIL24 socket	STEVAL-MKI239A
6-axis IMU (inertial measurement unit) with embedded sensor fusion, I3C, OIS/EIS for smart applications	LSM6DSV
Professional MEMS tool: evaluation board for all ST MEMS sensors	STEVAL-MKI109D
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS4A1
Applications	Wearables

Schematic diagrams

Figure 1. STEVAL-MK1239A circuit schematic



2 Board versions

Table 1. STEVAL-MKI239A versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI239AA ⁽¹⁾	STEVAL\$MKI239AA schematic diagrams	STEVAL\$MKI239AA bill of materials

1. This code identifies the first version of the STEVAL-MKI239A evaluation board.

Revision history

Table 2. Document revision history

Date	Revision	Changes
01-Feb-2023	1	Initial release
24-Jul-2025	2	Added MEMS Studio software solution, STEVAL-MKI109D evaluation platform, and X-NUCLEO-IKS4A1 expansion board

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