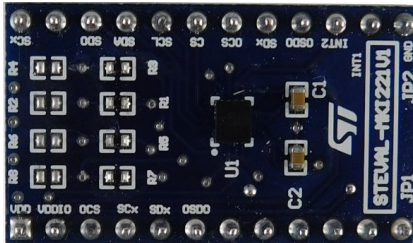


## LSM6DSO32X adapter board for a standard DIL24 socket



### Features

- Complete [LSM6DSO32X](#) pinout for a standard DIL24 socket
- Fully compatible with the [STEVAL-MKI109D](#) evaluation platform
- RoHS compliant

### Description

The [STEVAL-MKI221V1](#) is an adapter board designed to facilitate the evaluation of the [LSM6DSO32X](#) 6-axis IMU (inertial measurement unit). The board offers an effective solution for fast system prototyping and device evaluation directly within the user's application.

The [STEVAL-MKI221V1](#) can be plugged into a standard DIL24 socket. The adapter provides the complete [LSM6DSO32X](#) pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

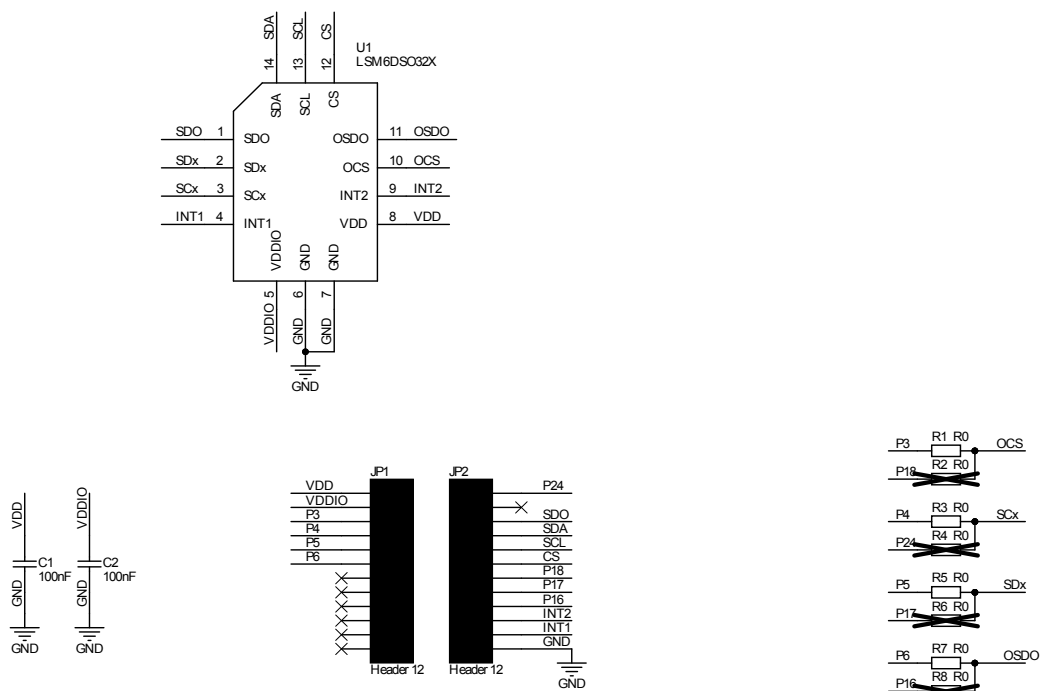
This adapter is supported by the [STEVAL-MKI109D](#) evaluation platform that includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable [MEMS Studio](#) graphical user interface or dedicated software routines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

The adapter board can also be plugged into the [X-NUCLEO-IKS4A1](#) and [X-NUCLEO-IKS02A1](#) expansion boards.

Product summary	
LSM6DSO32X adapter board for a standard DIL24 socket	<a href="#">STEVAL-MKI221V1</a>
6-axis IMU (inertial measurement unit): always-on 3-axis accelerometer and 3-axis gyroscope	<a href="#">LSM6DSO32X</a>
Professional MEMS tool: evaluation board for all ST MEMS sensors	<a href="#">STEVAL-MKI109D</a>
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	<a href="#">X-NUCLEO-IKS4A1</a>
Applications	Wearables

## 1

**Figure 1. STEVAL-MKI221V1 circuit schematic**



## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
07-Apr-2021	1	Initial release
21-Mar-2025	2	Added STEVAL-MKI109D evaluation platform, MEMS Studio software solution, and X-NUCLEO-IKS4A1 expansion board

**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. 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.

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 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.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to [www.st.com/trademarks](http://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