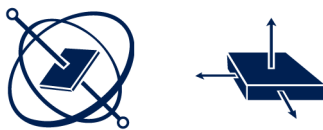
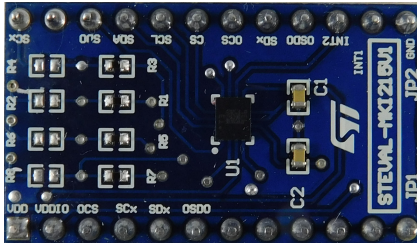


LSM6DSO32 adapter board for a standard DIL24 socket



Features

- Complete **LSM6DSO32** pinout for a standard DIL24 socket
- Fully compatible with the **STEVAL-MKI109V3** and **STEVAL-MKI109D** evaluation platforms
- RoHS compliant

Description

The **STEVAL-MKI215V1** is an adapter board designed to facilitate the evaluation of the **LSM6DSO32** 6-axis IMU (inertial measurement unit). The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

The **STEVAL-MKI215V1** can be plugged into a standard DIL24 socket. The adapter provides the complete **LSM6DSO32** pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

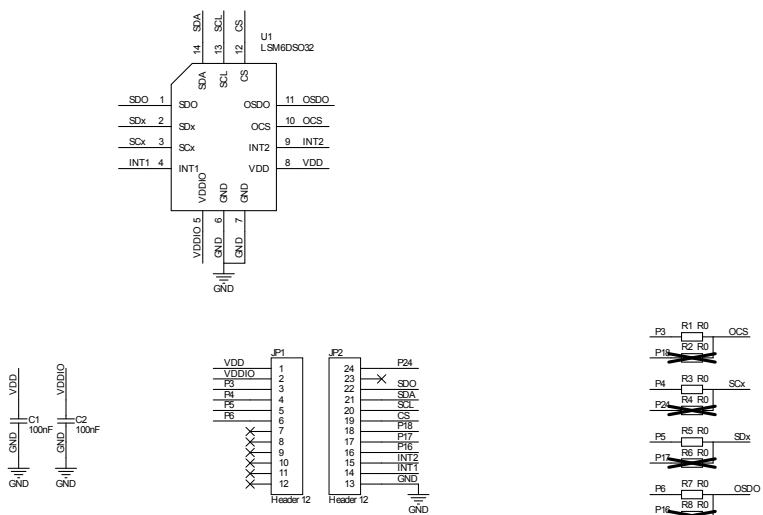
This adapter is supported by the **STEVAL-MKI109V3** and **STEVAL-MKI109D** evaluation platforms that include a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable **MEMS Studio** graphical user interface or dedicated software routines for customized applications.

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

Product summary	
LSM6DSO32 adapter board for a standard DIL24 socket	STEVAL-MKI215V1
6-axis IMU (inertial measurement unit): always-on 3-axis accelerometer and 3-axis gyroscope	LSM6DSO32
Professional MEMS tool: ST MEMS adapters motherboard based on the STM32F401VE and compatible with all ST MEMS adapters	STEVAL-MKI109V3
Professional MEMS tool: evaluation board for all ST MEMS sensors	STEVAL-MKI109D
Applications	Wearables

1 Schematic diagram

Figure 1. STEVAL-MKI215V1 board schematic



Revision history

Table 1. Document revision history

Date	Version	Changes
06-May-2020	1	Initial release.
23-Jul-2020	2	Updated cover image.
10-May-2021	3	Updated schematic. Updated product summary.
14-Feb-2025	4	Added STEVAL-MKI109D evaluation platform and MEMS Studio software solution Updated Product summary table Minor textual updates

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. 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