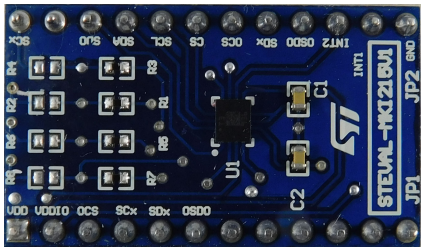
STEVAL-MKI215V1

Data brief

LSM6DSO32 adapter board for a standard DIL24 socket



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

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.

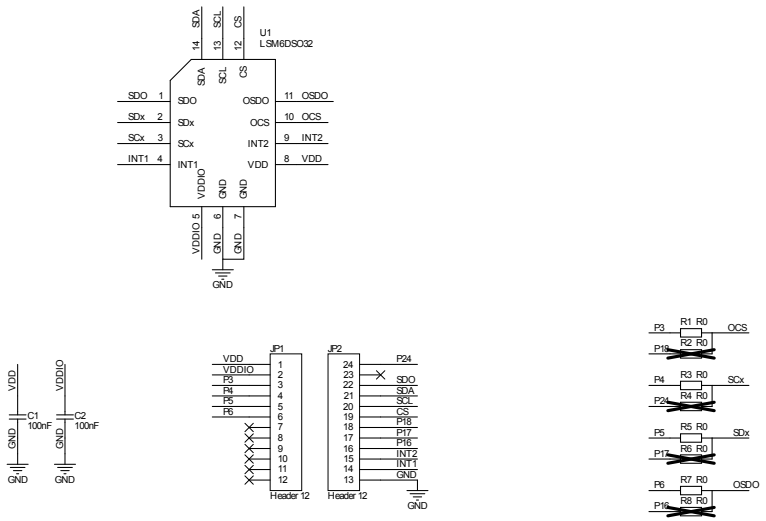
The STEVAL-MKI215V1 can be plugged into a standard DIL24 socket. The adapter provides the complete LSM6DSO32 pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

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.

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