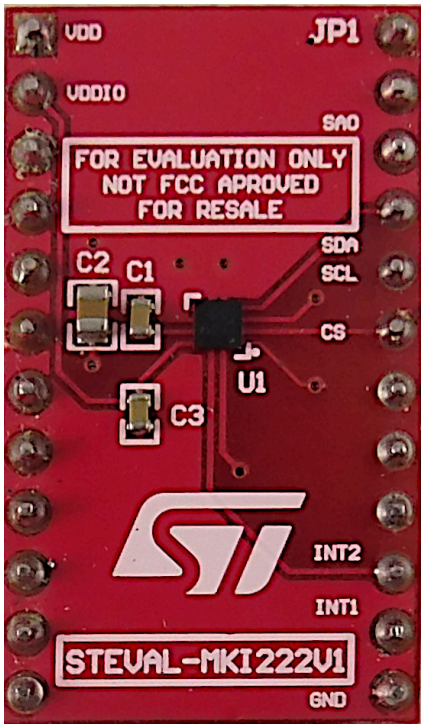
STEVAL-MKI222V1

Data brief

LIS2DU12 adapter board for a standard DIL24 socket



Features

- Complete LIS2DU12 pinout for a standard DIL24 socket
- Fully compatible with the STEVAL-MKI109V3 motherboard
- RoHS compliant

Description

The STEVAL-MKI222V1 is an adapter board designed to facilitate the evaluation of the LIS2DU12 accelerometer. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

The STEVAL-MKI222V1 can be plugged into a standard DIL24 socket.

It provides the complete LIS2DU12 pinout and embeds the required decoupling capacitors on the VDD power supply line.

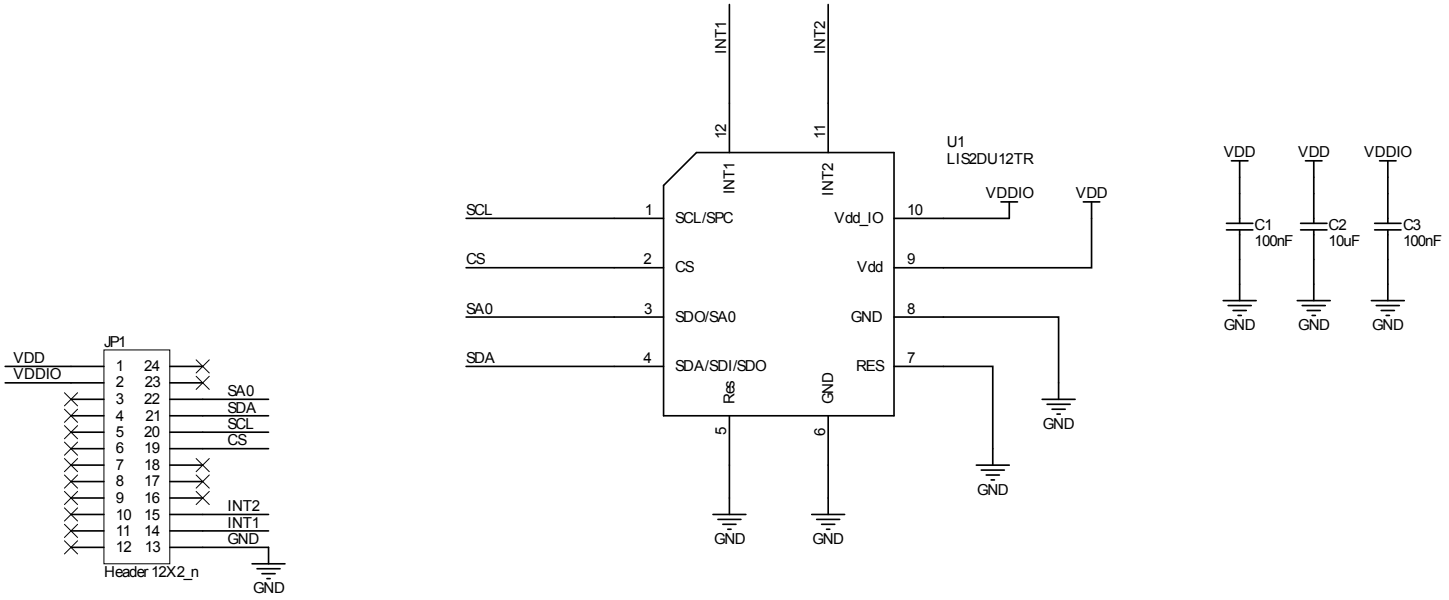
This adapter is supported by the STEVAL-MKI109V3 motherboard, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the MEMS Studio downloadable graphical user interface or dedicated software routines for customized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

The adapter is also compatible with the X-NUCLEO-IKS01A3 expansion board to develop your own applications.

Product summary	
LIS2DU12 adapter board for a standard DIL24 socket	STEVAL-MKI222V1
MEMS digital output motion sensor: advanced ultralow-power 3-axis accelerometer	LIS2DU12
MEMS adapter motherboard based on the STM32F401VE	STEVAL-MKI109V3
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS01A3
Applications	Sports equipment

1 Schematic diagrams

Figure 1. **STEVAL-MKI222V1 circuit schematic**



2 Board versions

Table 1. **STEVAL-MKI221V1 versions**

Finished good	Schematic diagrams	Bill of materials
STEVAL$MKI222V1A(1)	STEVAL$MKI222V1A schematic diagrams	STEVAL$MKI222V1A bill of materials

1. *This code identifies the first version of the STEVAL-MKI222V1 evaluation board.*

Revision history

Table 2. **Document revision history**

Date	Revision	Changes
09-Nov-2021	1	Initial release
27-Aug-2024	2	Updated Description to include MEMS Studio software solution Minor textual updates