STEVAL-MKI235KA

Data brief

LIS2DUXS12 adapter kit for standard DIL24 socket with QVAR functionalities

Features

- User friendly LIS2DUXS12 board
- Complete LIS2DUXS12 pinout for a standard DIL 24 socket
- Fully compatible with the STEVAL-MKI109V3 motherboard
- RoHS compliant

Description

The STEVAL-MKI235KA evaluation kit is based on the LIS2DUXS12 inertial module with a Qvar electrostatic sensor and three different electrodes (swipe finger and generic) to make it compatible with the STEVAL-MKI109V3.

The kit provides the complete LIS2DUXS12 pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

The STEVAL-MKE00xAA can be plugged into the STEVAL-MKI235A board.

This adapter is supported by the STEVAL-MKI109V3 mother board, 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 graphical user interface (Unico-GUI), or dedicated software routines for customized applications.

It is also possible to plug the board into an X-NUCLEO-IKS01A3 expansion board.

Product summary	
LIS2DUXS12 adapter kit for standard DIL24 socket with QVAR functionalities	STEVAL-MKI235KA
Ultralow-power accelerometer with Qvar, AI, & anti-aliasing	LIS2DUXS12
MEMS adapter motherboard based on the STM32F401VE	STEVAL-MKI109V3
Motion MEMS and microphone MEMS expansion board for STM32 Nucleo	X-NUCLEO-IKS01A3
Applications	Smart Glasses (AR)

1 Schematic diagrams

Figure 1. **STEVAL-MKE001A circuit schematic**

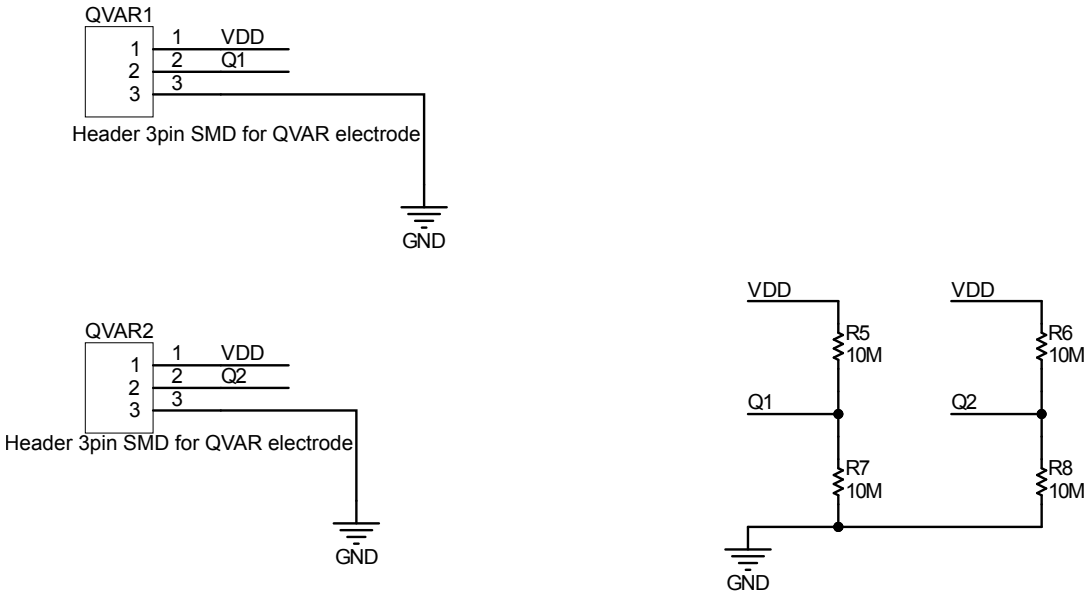


Figure 2. **STEVAL-MKE002A circuit schematic**

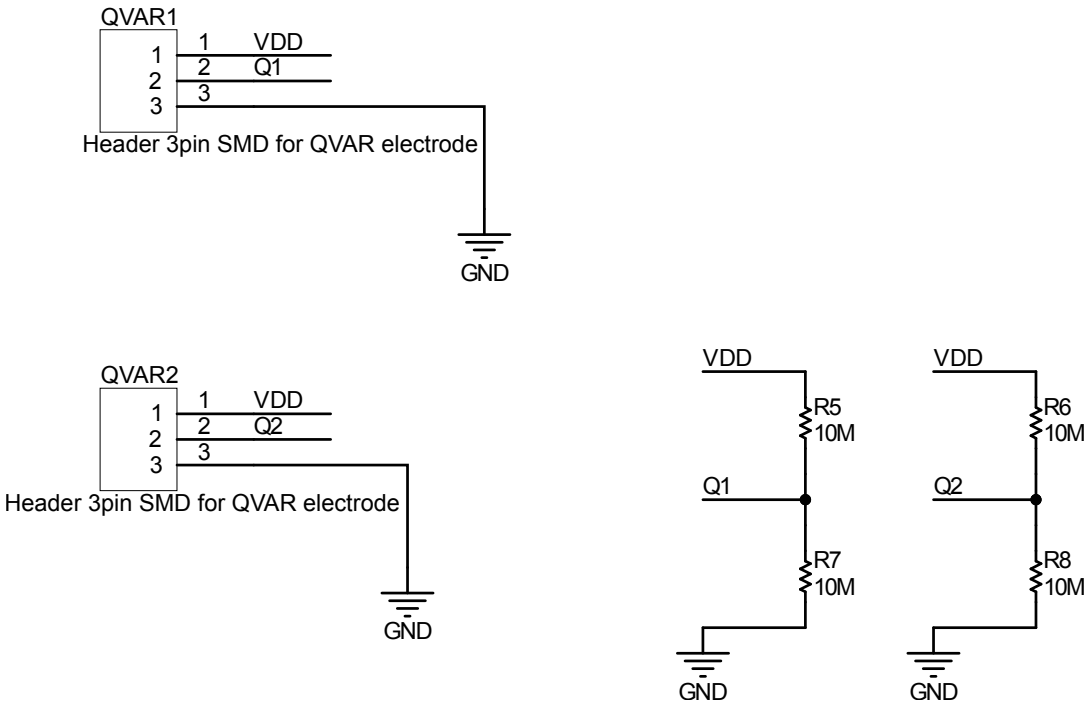


Figure 3. **STEVAL-MKE003A circuit schematic**

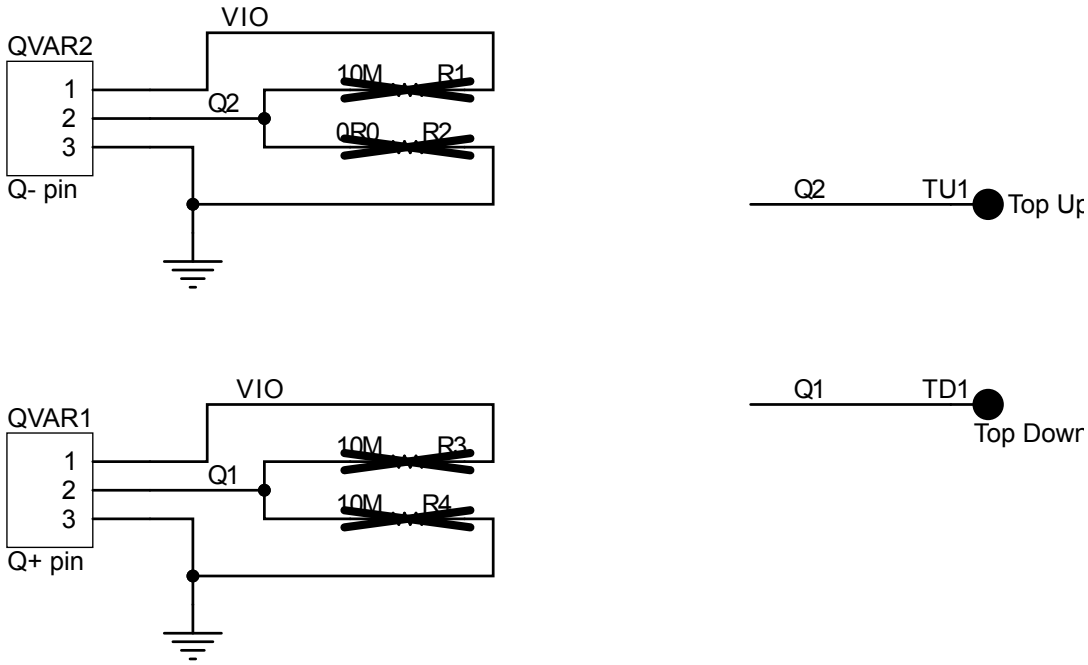
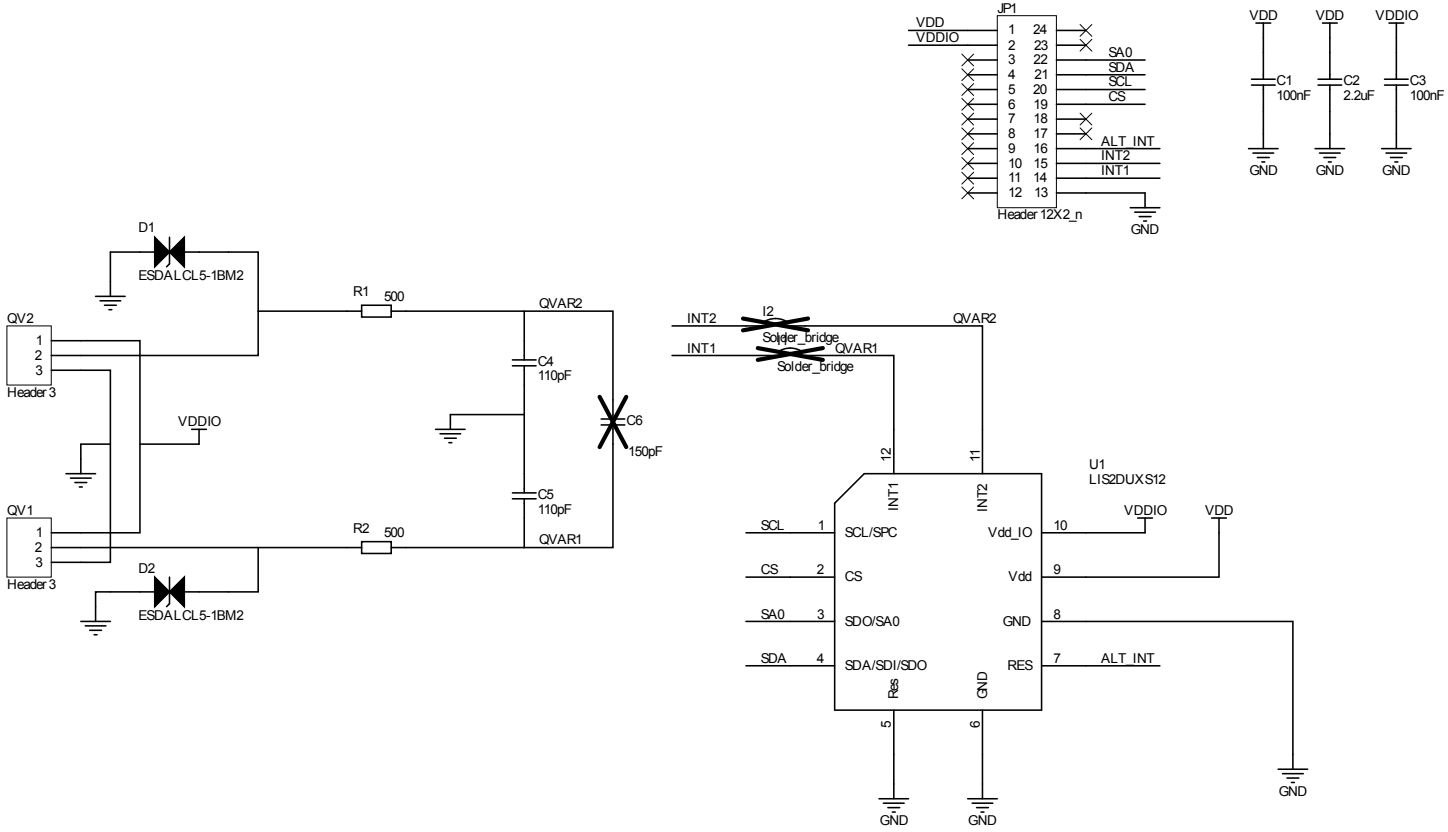


Figure 4. STEVAL-MKI235A circuit schematic



2 Kit versions

Table 1. STEVAL-MKI235KA versions

PCB version	Schematic diagrams	Bill of materials
STEVAL$MKI235KAA (1)	STEVAL$MKI235KAA schematic diagrams	STEVAL$MKI235KAA bill of materials

1. *This code identifies the STEVAL-MKI235KA evaluation kit first version. The kit consists of a STEVAL-MKI235A whose version is identified by the code STEVAL$MKI235AA, a STEVAL-MKE001A whose version is identified by the code STEVAL$MKE001AA, a STEVAL-MKE002A whose version is identified by the code STEVAL$MKE002AA and a STEVAL-MKE003A whose version is identified by the code STEVAL$MKE003AA.*

Revision history

Table 2. **Document revision history**

Date	Revision	Changes
17-Jan-2023	1	Initial release.