

iNEMO inertial module kit based on ISM330IS



Features

- User friendly [ISM330IS](#) board
- Complete [ISM330IS](#) pin-out for a standard DIL24 socket
- Fully compatible with the [STEVAL-MKI109V3](#) motherboard
- RoHS compliant

Description

The [STEVAL-MKI230KA](#) evaluation kit consists of the [STEVAL-MKI230A](#) main sensing board, with a square PCB, which mounts the [ISM330IS](#) 3-axis accelerometer and 3-axis gyroscope with embedded ISPU, the [STEVAL-MKIGIBV5](#) adapter board, and a flat cable. The main board is connected to the adapter board through the flat cable to make it compatible with the [STEVAL-MKI109V3](#).

The sensing board can be directly attached to the system to be measured through the provided adhesive.

The [ISM330IS](#) is soldered exactly in the center of the board.

The [STEVAL-MKIGIBV5](#) can be plugged into a standard DIL24 socket. The kit provides the complete [ISM330IS](#) pin-out and comes ready-to-use with 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 downloadable graphical user interface ([Unico-GUI](#)), or dedicated software routines for customized applications.

Product summary	
iNEMO inertial module kit based on ISM330IS	STEVAL-MKI230KA
iNEMO inertial module: always-on 3D accelerometer and 3D gyroscope with embedded ISPU - intelligent sensor processing unit	ISM330IS
MEMS adapter motherboard based on the STM32F401VE	STEVAL-MKI109V3
Motion MEMS and microphone MEMS expansion board for STM32 Nucleo	X-NUCLEO-IKS02A1
Applications	Gas Metering

1 Schematic diagrams

Figure 1. STEVAL-MKIGIBV5 circuit schematic

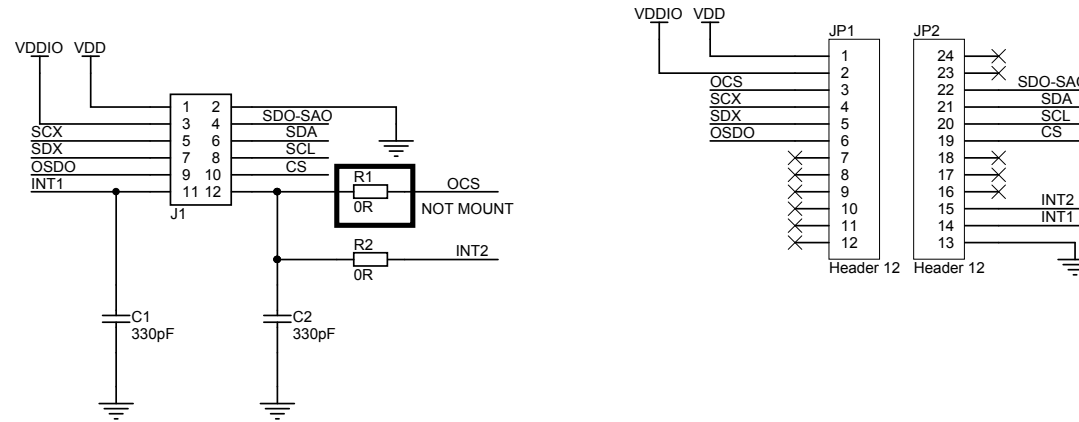
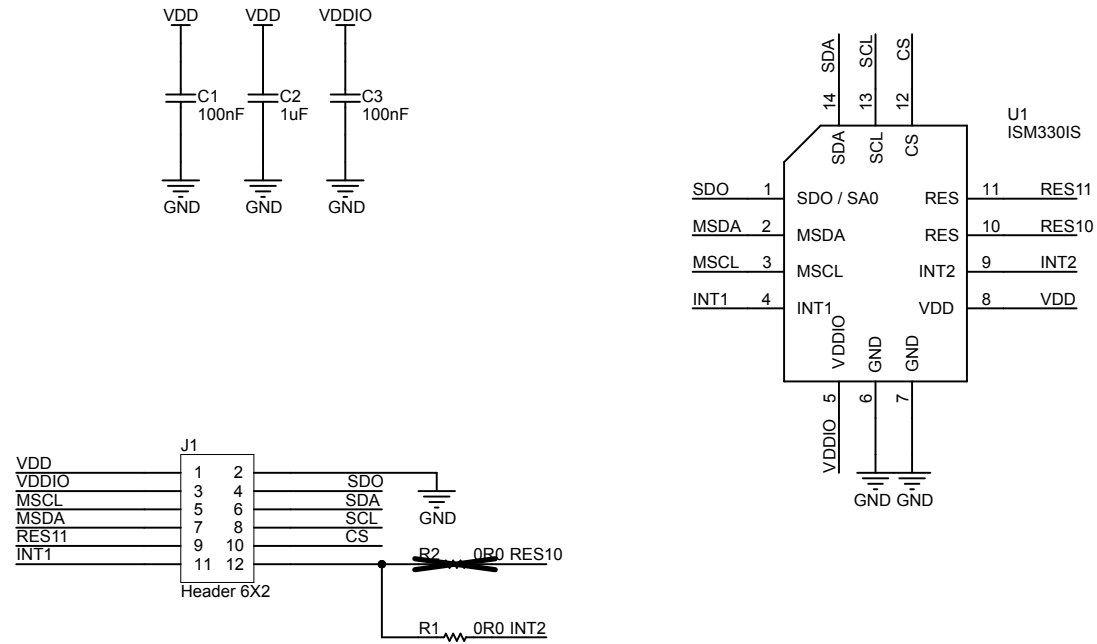


Figure 2. STEVAL-MKI230A circuit schematic



2 Kit versions

Table 1. STEVAL-MKI230KA kit versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI230KAA ⁽¹⁾	STEVAL\$MKI230KAA schematic diagrams	STEVAL\$MKI230KAA bill of materials

- This code identifies the STEVAL-MKI230KA evaluation kit first version. The kit consists of a STEVAL-MKI230AA whose version is identified by the code STEVAL\$MKI230AAA and a STEVAL-MKIGIBV5 whose version is identified by the code STEVAL\$MKIGIBV5A*

Revision history

Table 2. Document revision history

Date	Revision	Changes
30-Mar-2022	1	Initial release.

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