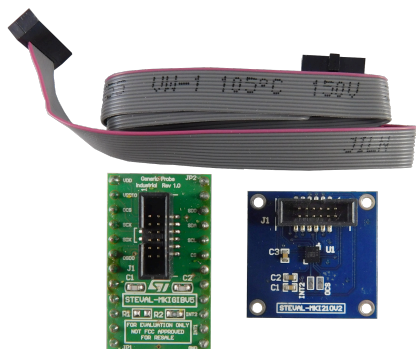


## IMU (inertial measurement unit) kit for industrial applications based on ISM330DHCX



### Features

- User-friendly [ISM330DHCX](#) board
- Complete [ISM330DHCX](#) pinout for a standard DIL24 socket
- Double-sided adhesives included for easy mounting on equipment to be measured
- Fully compatible with the [STEVAL-MKI109D](#) evaluation platform
- RoHS compliant

### Description

The [STEVAL-MKI210V2K](#) evaluation kit includes the [STEVAL-MKI210V2](#) main board and the [STEVAL-MKIGIBV5](#) adapter board. The main board embeds the [ISM330DHCX](#) 3-axis accelerometer and 3-axis gyroscope sensor and is connected to the adapter board through a flat cable to render it compatible with the [STEVAL-MKI109D](#) evaluation platform.

The kit provides the complete [ISM330DHCX](#) pinout and comes ready to use with the required decoupling capacitors on the  $V_{DD}$  power supply line.

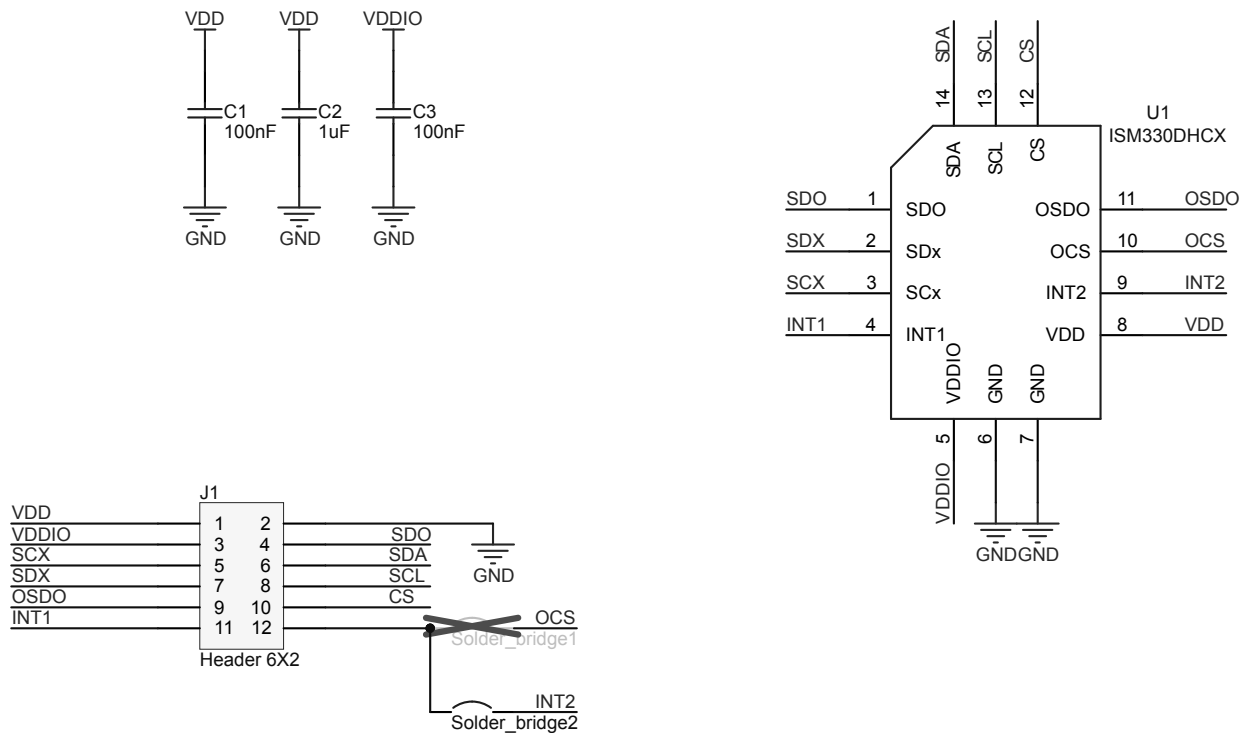
The [ISM330DHCX](#) sensor is soldered precisely in the center of the board and double-sided adhesives are provided to allow users to conveniently mount the board on their equipment.

The [STEVAL-MKIGIBV5](#) can be plugged into a standard DIL24 socket. This adapter is supported by the [STEVAL-MKI109D](#) evaluation platform with 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.

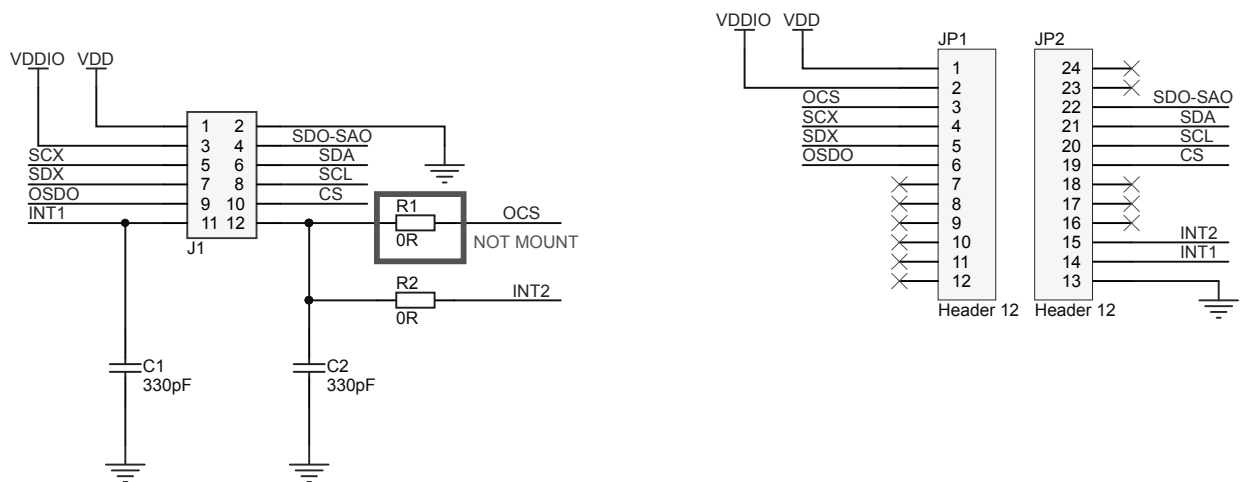
Product summary	
IMU (inertial measurement unit) kit for industrial applications based on <a href="#">ISM330DHCX</a>	<a href="#">STEVAL-MKI210V2K</a>
IMU (inertial measurement unit) with machine learning core and finite state machine with digital output for industrial applications	<a href="#">ISM330DHCX</a>
Professional MEMS tool: evaluation board for all ST MEMS sensors	<a href="#">STEVAL-MKI109D</a>
Applications	<a href="#">Industrial sensors</a>

# 1 Schematic diagrams

**Figure 1. STEVAL-MKI210V2 circuit schematic**



**Figure 2. STEVAL-MKIGIBV5 circuit schematic**



## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
27-Jul-2021	1	Initial release
05-Sep-2025	2	Added the STEVAL-MKI109D evaluation platform and MEMS Studio software solution

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