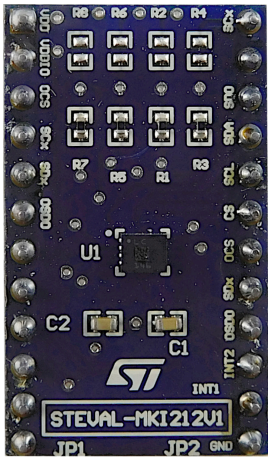
STEVAL-MKI212V1

Data brief

ASM330LHHX adapter board for a standard DIL24 socket



Product summary	
ASM330LHHX adapter board for a standard DIL24 socket	STEVAL-MKI212V1
High-accuracy 6-axis automotive inertial measurement unit (IMU) with embedded machine learning core and dual operating modes	ASM330LHHX
Professional MEMS tool: evaluation board for all ST MEMS sensors	STEVAL-MKI109D
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS4A1
Applications	Vehicle-to-everything (V2X)

Features

- Complete ASM330LHHX pinout for a standard DIL24 socket
- Fully compatible with the STEVAL-MKI109D evaluation platform
- RoHS compliant

Description

The STEVAL-MKI212V1 is an adapter board designed to facilitate the evaluation of the ASM330LHHX inertial measurement unit (IMU) in automotive applications. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

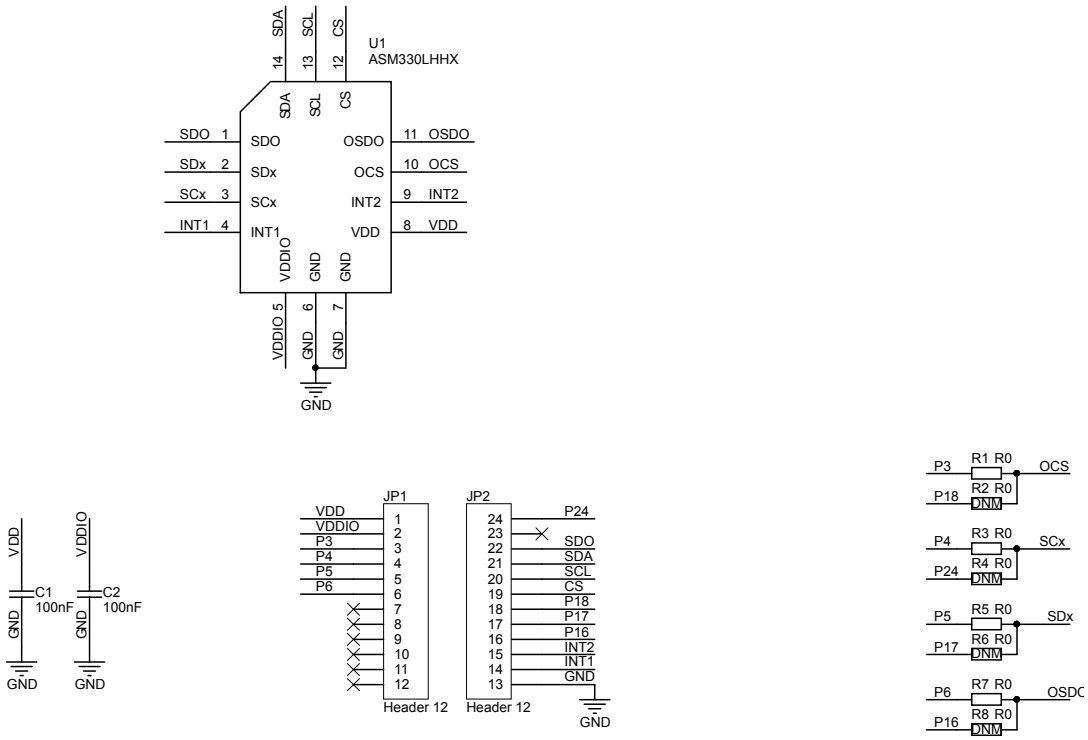
The STEVAL-MKI212V1 can be plugged into a standard DIL24 socket. The adapter provides the complete ASM330LHHX pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

This adapter is supported by the STEVAL-MKI109D evaluation platform that 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 MEMS Studio graphical user interface or dedicated software routines for customized applications.

The STEVAL-MKI212V1 board can also be plugged into other boards like the X-NUCLEO-IKS4A1 expansion board.

1 Schematic diagrams

Figure 1. **STEVAL-MKI212V1 circuit schematic**



2 Board versions

Table 1. STEVAL-MKI212V1 versions

PCB version	Schematic diagrams	Bill of materials
STEVAL$MKI212V1A(1)	STEVAL$MKI212V1A schematic diagrams	STEVAL$MKI212V1A bill of materials

1. *This code identifies the first version of the STEVAL-MKI212V1 evaluation board. It is printed on the board PCB.*

Revision history

Table 2. **Document revision history**

Date	Revision	Changes
04-Apr-2022	1	Initial release
20-Sep-2024	2	Updated Description to include MEMS Studio software solution Updated product summary table
19-Feb-2025	3	Added STEVAL-MKI109D evaluation platform and X-NUCLEO-IKS4A1 expansion board