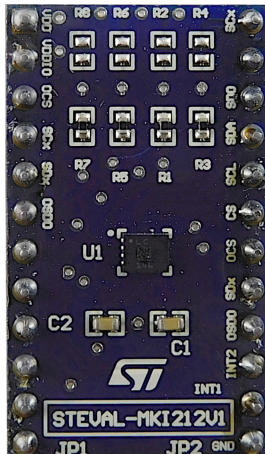


ASM330LHHX adapter board for a standard DIL24 socket



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.

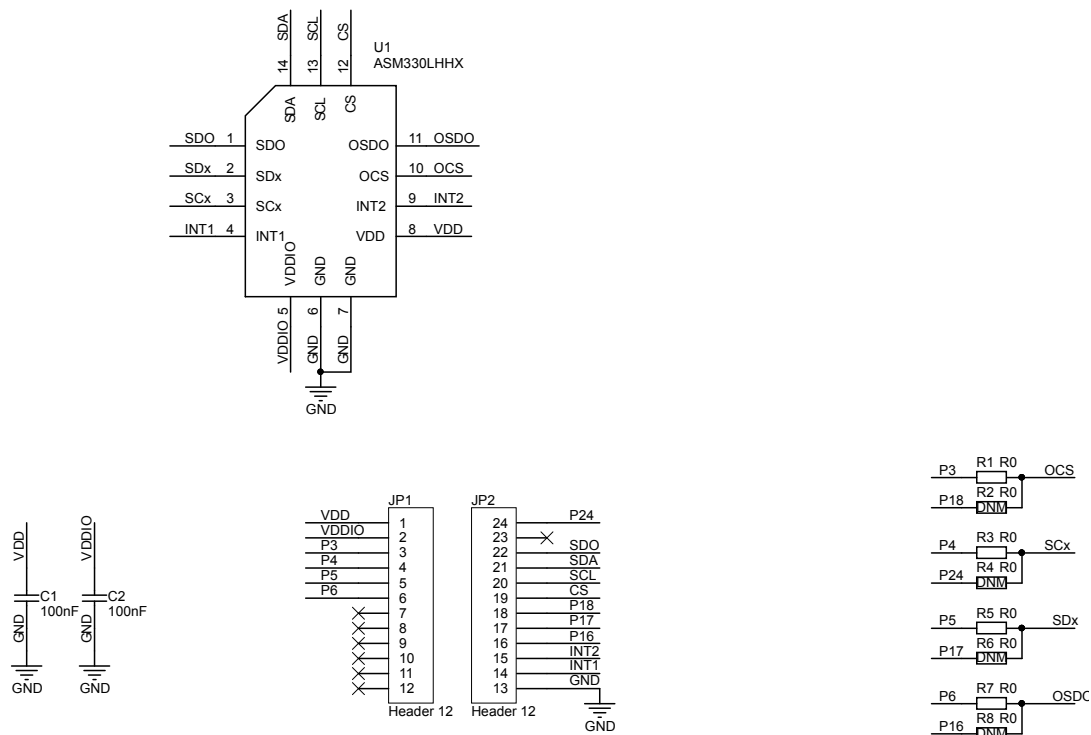
This adapter is supported by the [STEVAL-MKI109D](#) evaluation platform that includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable [MEMS Studio](#) graphical user interface or dedicated software routines for customized applications.

The [STEVAL-MKI212V1](#) board can also be plugged into other boards like the [X-NUCLEO-IKS4A1](#) expansion board.

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)

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

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