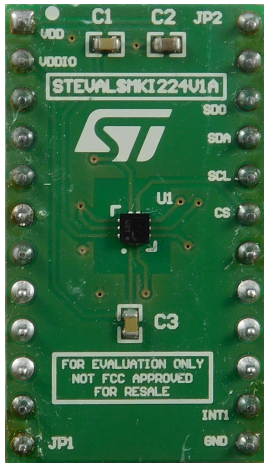


LPS22DF adapter board for a standard DIL24 socket



Features

- Complete **LPS22DF** pinout for a standard DIL24 socket
- Fully compatible with the **STEVAL-MKI109V3** motherboard
- RoHS compliant

Description

The **STEVAL-MKI224V1** is an adapter board designed to facilitate the evaluation of the **LPS22DF** pressure sensor. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

The **STEVAL-MKI224V1** can be plugged into a standard DIL24 socket. The adapter provides the complete **LPS22DF** pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

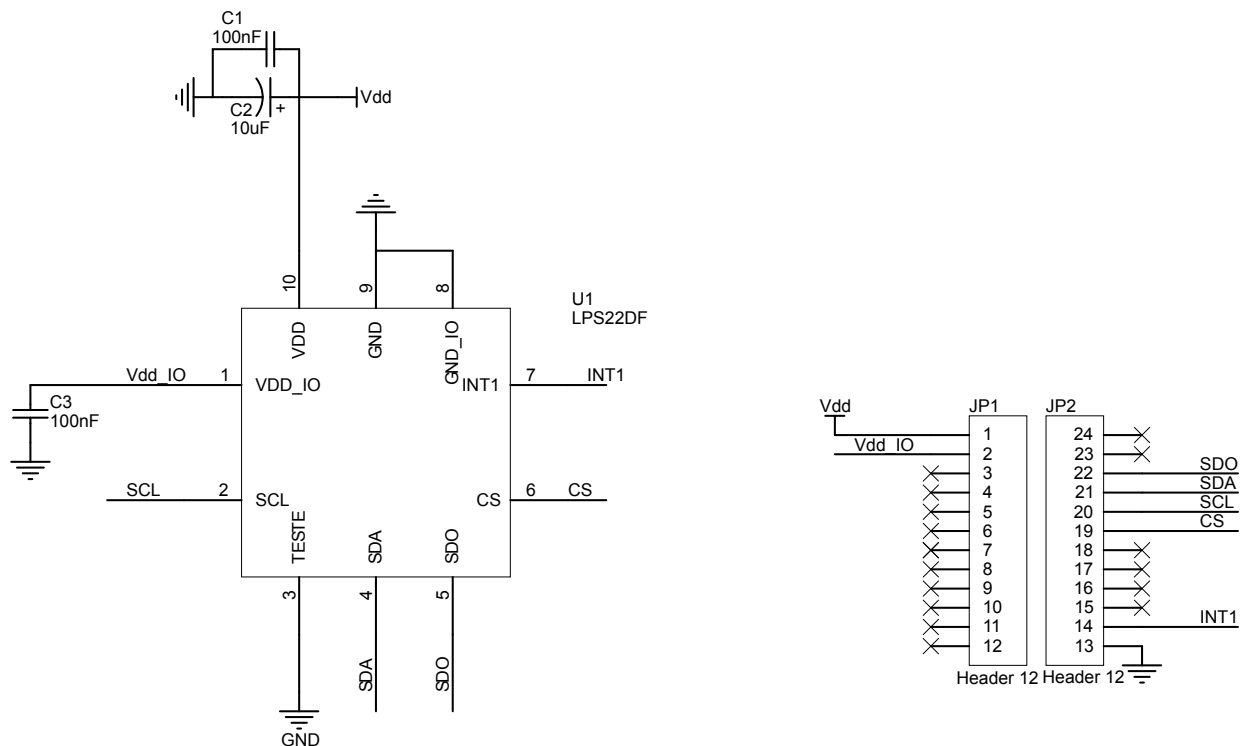
This adapter is supported by the **STEVAL-MKI109V3** motherboard, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the **MEMS Studio** downloadable graphical user interface or dedicated software routines for customized applications.

The **STEVAL-MKI224V1** adapter board can also be plugged into other boards like the **X-NUCLEO-IKS01A3** expansion board.

Product summary	
LPS22DF adapter board for a standard DIL24 socket	STEVAL-MKI224V1
Low-power and high-precision MEMS nano pressure sensor: 260-1260 hPa absolute digital output barometer	LPS22DF
MEMS adapter motherboard based on the STM32F401VE	STEVAL-MKI109V3
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS01A3
Applications	Sports equipment

1 Schematic diagrams

Figure 1. STEVAL-MKI224V1 circuit schematic



2 Board versions

Table 1. STEVAL-MKI224V1 versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI224V1A ⁽¹⁾	STEVAL\$MKI224V1A schematic diagrams	STEVAL\$MKI224V1A bill of materials

1. This code identifies the first version of the STEVAL-MKI224V1 evaluation board.

Revision history

Table 2. Document revision history

Date	Revision	Changes
17-Jan-2022	1	Initial release
27-Aug-2024	2	Updated Description to include MEMS Studio software solution Minor textual updates

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