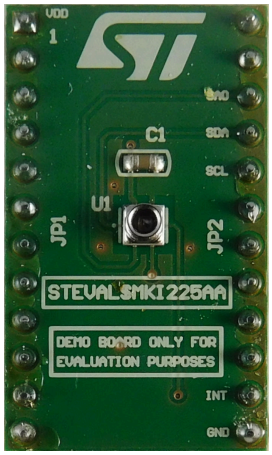
STEVAL-MKI225A

Data brief

LPS28DFW adapter board for a standard DIL24 socket



Product summary	
LPS28DFW adapter board for a standard DIL24 socket	STEVAL-MKI225A
Dual full-scale, 1260 hPa and 4060 hPa, absolute digital output barometer with water-resistant package	LPS28DFW
MEMS adapter motherboard based on the STM32F401VE	STEVAL-MKI109V3
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS01A3
Applications	Water metering

Features

- Complete LPS28DFW pinout for a standard DIL24 socket
- Fully compatible with the STEVAL-MKI109V3 motherboard
- RoHS compliant

Description

The STEVAL-MKI225A is an adapter board designed to facilitate the evaluation of the LPS28DFW pressure sensor. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

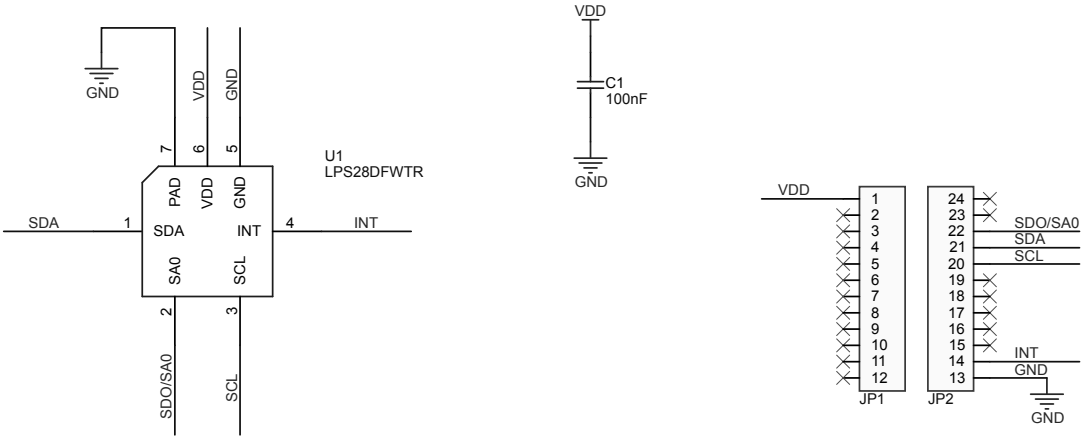
The STEVAL-MKI225A can be plugged into a standard DIL24 socket. The adapter provides the complete LPS28DFW pinout and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

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-MKI225A adapter board can also be plugged into other boards like the X-NUCLEO-IKS01A3 expansion board.

1 Schematic diagrams

Figure 1. **STEVAL-MKI225A circuit schematic**



2 Board versions

Table 1. STEVAL-MKI225A versions

Finished good	Schematic diagrams	Bill of materials
STEVAL$MKI225AA[1]	STEVAL$MKI225AA schematic diagrams	STEVAL$MKI225AA bill of materials

1. *This code identifies the first version of the STEVAL-MKI225A evaluation board.*

Revision history

Table 2. **Document revision history**

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