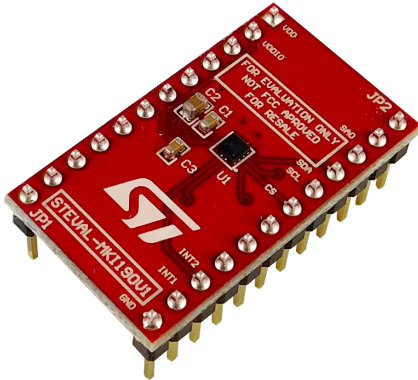


LIS2DTW12 adapter board for a standard DIL24 socket



Features

- Complete LIS2DTW12 pinout for a standard DIL24 socket
- Fully compatible with the [STEVAL-MKI109D](#)
- RoHS compliant

Description

The [STEVAL-MKI190V1](#) is an adapter board designed to facilitate the evaluation of the LIS2DTW12 3-axis accelerometer in the MEMS product family. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

The STEVAL-MKI190V1 can be plugged into a standard DIL24 socket. The adapter provides the complete LIS2DTW12 pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

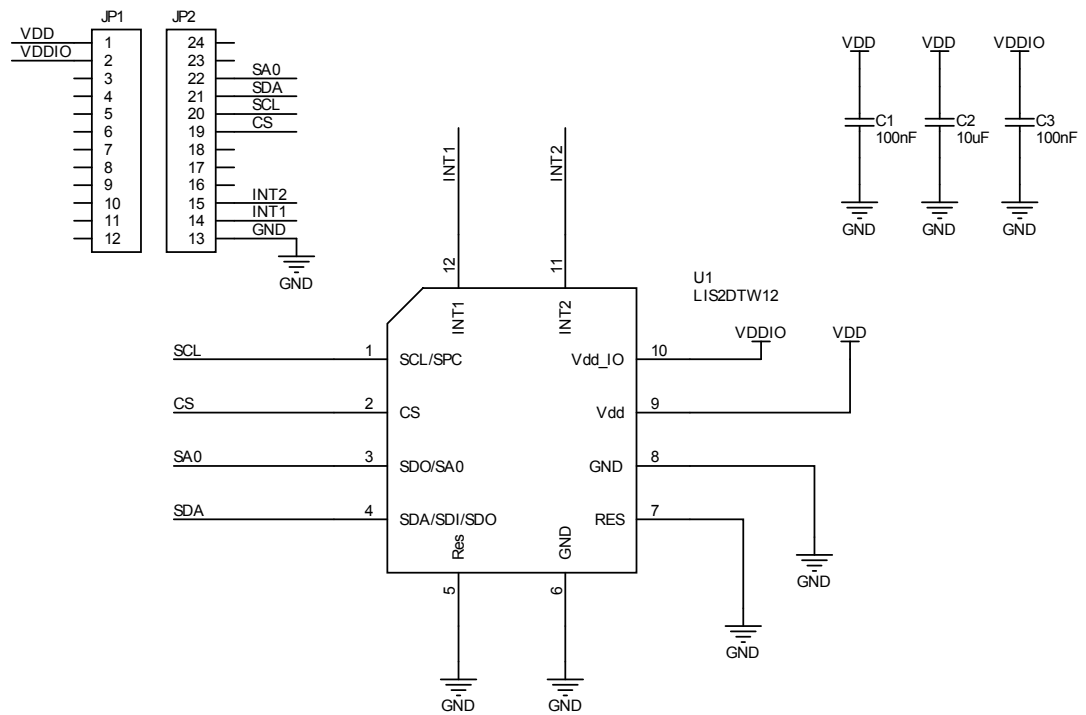
This adapter is supported by the [STEVAL-MKI109D](#) evaluation platform, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable [MEMS Studio](#) graphical user interface or dedicated software routines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

Product summary

LIS2DTW12 adapter board for a standard DIL24 socket	STEVAL-MKI190V1
MEMS digital output dual motion and temperature sensor	LIS2DTW12
Professional MEMS tool: evaluation board for all ST MEMS sensors	STEVAL-MKI109D
Applications	Asset tracking

1 Schematic diagram

Figure 1. STEVAL-MKI190V1 circuit schematic



Revision history

Table 1. Document revision history

Date	Version	Changes
22-Feb-2019	1	Initial release
22-Sep-2025	2	Added the STEVAL-MKI109D evaluation platform and MEMS Studio software solution

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

The purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of the purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers' market segment, the purchasers shall contact ST for more information.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2025 STMicroelectronics – All rights reserved