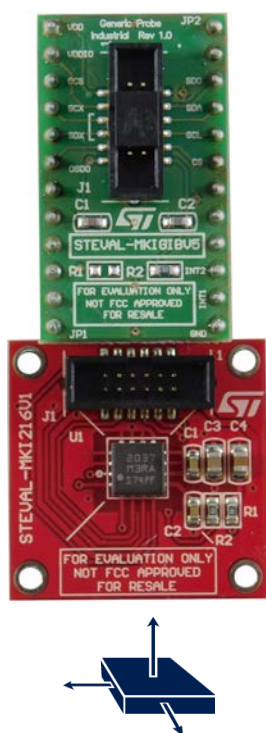


Digital inclinometer kit based on IIS3DHHHC



Features

- User friendly IIS3DHHHC board
- Complete IIS3DHHHC pinout for a standard DIL 24 socket
- Fully compatible with STEVAL-MKI109V3 motherboard
- Double-sided adhesives included for easy mounting on equipment to be measured
- RoHS and WEEE compliant

Description

The STEVAL-MKI216V1K evaluation board has an embedded IIS3DHHHC 3D accelerometer sensor, which is connected via cable to a simple adapter board (STEVAL-MKI216V1K) to render it compatible with STEVAL-MKI109V3 motherboards.

The sensor is soldered precisely in the center of the board and double-sided adhesives are provided to allow users to conveniently mount the board on equipment destined for vibration analysis. Alternatively, you can mount the board using the holes located in each corner of the PCB.

The STEVAL-MKI216V1K can be plugged into a standard DIL 24 socket. The kit provides the complete IIS3DHHHC pin-out and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

The STEVAL-MKI109V3 motherboards feature a high performance 32-bit microcontroller functioning as a bridge between the sensor and a PC running the free Unico GUI graphical user interface or dedicated software routines for customized applications.

Product summary	
Digital inclinometer kit based on IIS3DHHHC	STEVAL-MKI216V1K
high resolution, high stability 3-axis digital accelerometer for industrial applications	IIS3DHHHC
ST MEMS adapter motherboard based on STM32F401VE compatible ST MEMS adapters	STEVAL-MKI109V3
Application	IoT for Smart Things

1 Schematic diagrams

Figure 1. STEVAL-MKIGIBV5 board schematics

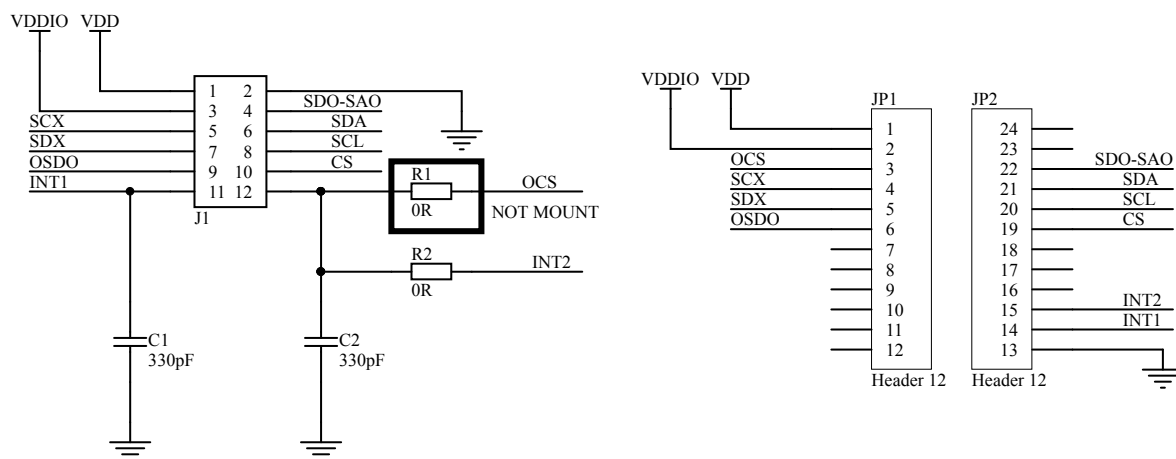
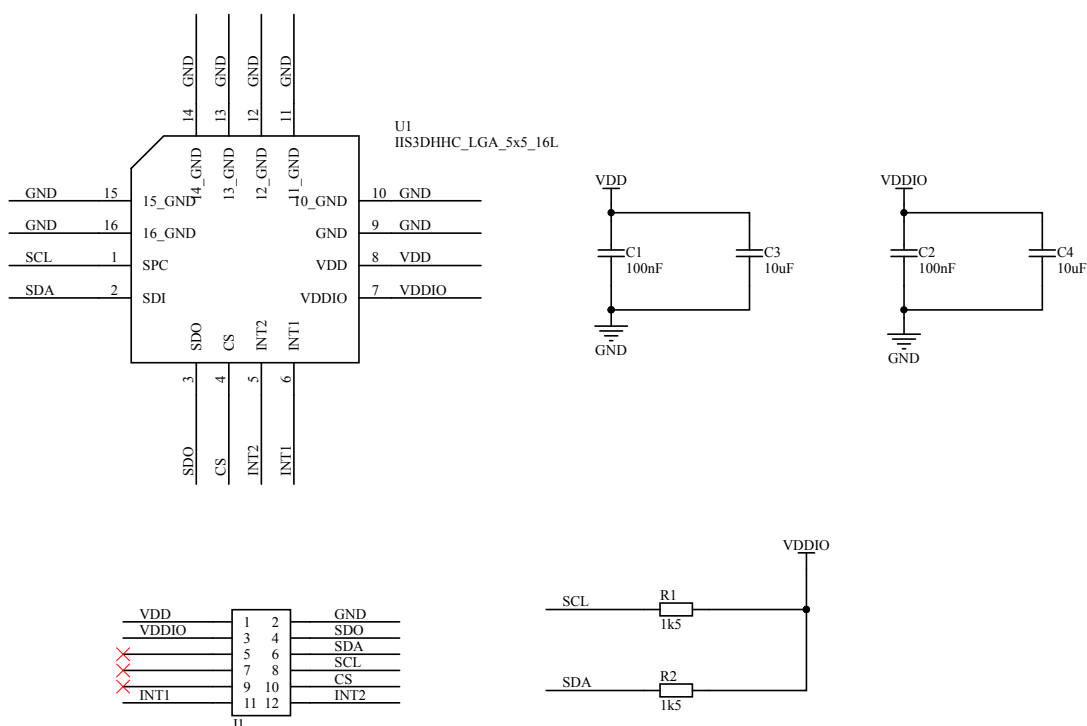


Figure 2. STEVAL-MKI216V1K board schematics



Revision history

Table 1. Document revision history

Date	Version	Changes
12-Nov-2020	1	Initial release.

IMPORTANT NOTICE – PLEASE 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. 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 acknowledgement.

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 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.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please 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.

© 2020 STMicroelectronics – All rights reserved