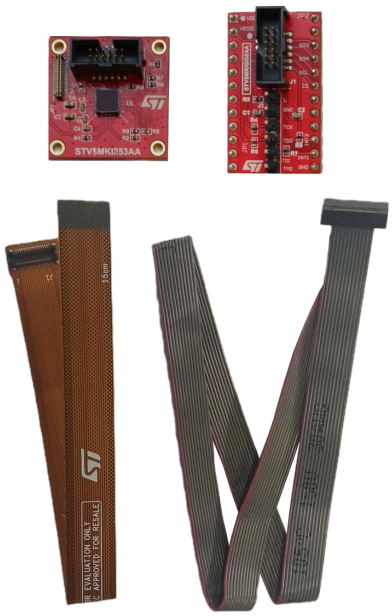
STEVAL-MKI253KA

Data brief

IIS3DWB10IS evaluation kit based on ultrawide bandwidth, 3-axis digital vibration sensor with ISPU



Features

- User-friendly IIS3DWB10IS board
- Complete IIS3DWB10IS pinout for a standard DIL 24 socket
- Fully compatible with STEVAL-MKI109D evaluation platform
- RoHS compliant

Description

The STEVAL-MKI253KA evaluation kit is based on the IIS3DWB10IS 3-axis digital vibration sensor with ISPU.

The kit includes the STEVAL-MKI253A main sensing board, which features a square printed circuit board (PCB) and mounts the IIS3DWB10IS 3-axis digital vibration sensor. It also includes the STEVAL-MKIGI08A adapter board, which enables compatibility with the STEVAL-MKI109D through a DIL24 interface.

A flat cable is provided to connect the STEVAL-MKI253A to the STEVAL-MKIGI08A. Additionally, a flex PCB (STEVAL-FLTCB05) is included to connect the STEVAL-MKI253A to other boards, such as the X-NUCLEO-IKS5A1.

The presence of the square PCB allows placing the sensor directly in the system where the measurement should be performed, which could be in a different position from the main board. The IIS3DWB10IS is soldered exactly in the center of the board.

The STEVAL-MKI253KA evaluation kit 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.

After the evaluation, the adapter board can also be plugged in other boards for development and prototype. The MEMS Studio graphical user interface, or dedicated software routines for customized applications can be used for configuration and communication with the sensor.

Product summary	
IIS3DWB10IS evaluation kit based on ultrawide bandwidth, 3-axis digital vibration sensor with ISPU	STEVAL-MKI253KA
Ultrawide bandwidth, low-noise, 3-axis digital vibration sensor with ISPU - intelligent sensor processing unit	IIS3DWB10ISTR
Professional MEMS tool: evaluation board for all ST MEMS sensors	STEVAL-MKI109D
Motion MEMS and environmental sensor expansion board for STM32 Nucleo	X-NUCLEO-IKS5A1
Applications	Condition monitoring / predictive maintenance

1 Schematic diagrams

Figure 1. STEVAL-MKI253A circuit schematic

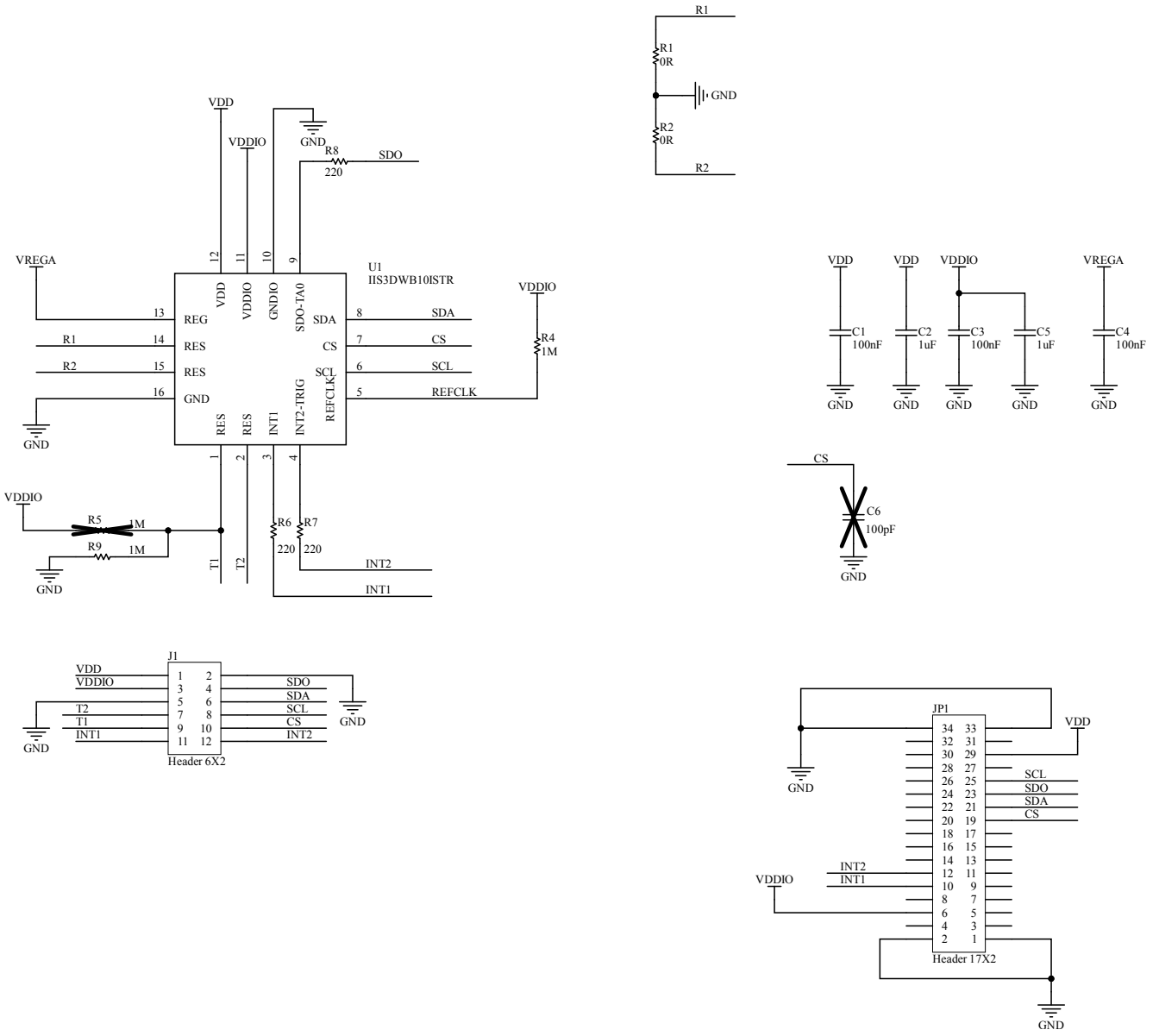
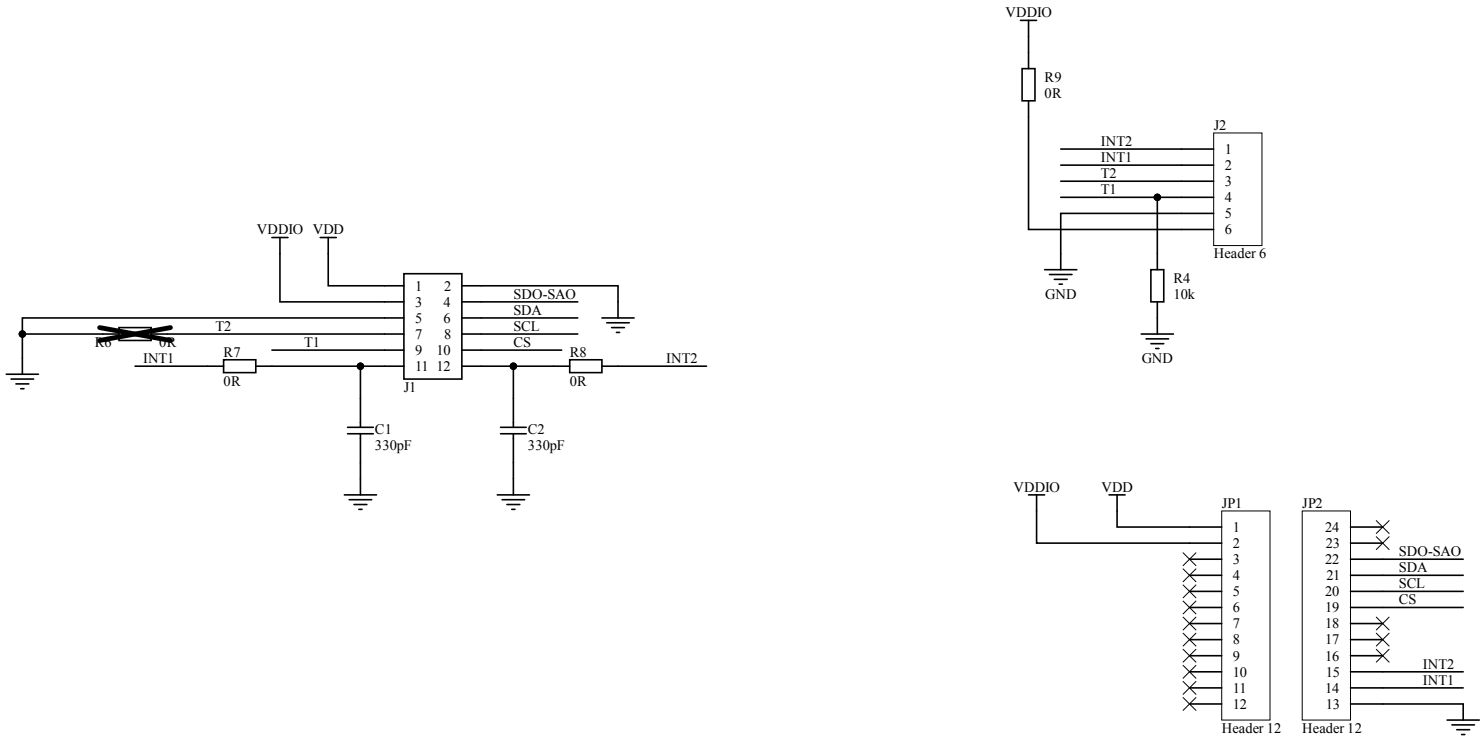


Figure 2. STEVAL-MKIG08A circuit schematic



2 Kit versions

Table 1. STEVAL-MKI253KA versions

PCB version	Schematic diagrams	Bill of materials
STV$MKI253KAA(1)	STV$MKI253KAA schematic diagrams	STV$MKI253KAA bill of materials

1. *This code identifies the STEVAL-MKI253KA evaluation kit first version. The kit consists of a STEVAL-MKI253A whose version is identified by the code STV$MKI253AA, a STEVAL-MKIGI08A whose version is identified by the code STV$MKIGI08AA and a STEVAL-FLTCB05 whose version is inentified by the code STV$FLTCB05A.*

Revision history

Table 2. **Document revision history**

Date	Revision	Changes
09-Jun-2026	1	Initial release.

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