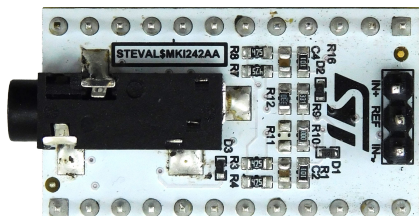


ST1VAFE6AX adapter kit for standard DIL24 socket with VAFE to measure biopotential signals from human body



Features

- Complete ST1VAFE6AX pinout for a standard DIL 24 socket
- Fully compatible with STEVAL-MKI109V3 motherboards
- RoHS compliant

Description

The [STEVAL-MKI242A](#) is an adapter board designed to facilitate the evaluation of MEMS devices in the [ST1VAFE6AX](#) product family. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

The [STEVAL-MKI242A](#) can be plugged into a standard DIL24 socket. The adapter provides the complete [ST1VAFE6AX](#) pinout and comes ready-to-use with the required decoupling capacitors on the VDD and VDDIO power supply lines. To use [STEVAL-MKI242A](#) is mandatory to use an ECG cable with a 3.5 mm phone jack.

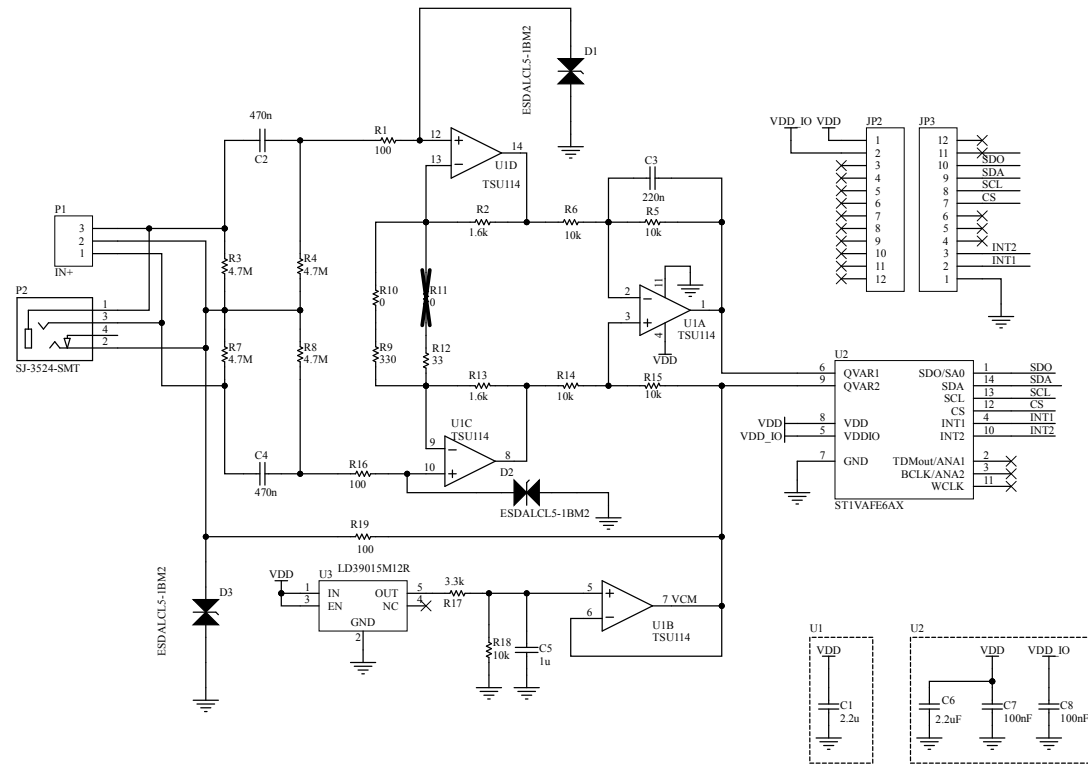
This adapter is supported and tested by the [STEVAL-MKI109V3](#) motherboard, which includes a high performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable graphical user interface (GUI or [MEMS-Studio](#)), or dedicated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

It is possible to use [STEVAL-MKBOXPRO](#) or [X-NUCLEO-IKS4A1](#) instead of [STEVAL-MKI109V3](#).

Product summary	
ST1VAFE6AX adapter kit for standard DIL24 socket with VAFE to measure biopotential signals from human body	STEVAL-MKI242A
6 axis IMU (inertial measurement unit) with sensor fusion, AI, and vAFE for biopotential signals	ST1VAFE6AX
Professional MEMS tool: ST MEMS adapters motherboard based on the STM32F401VE and compatible with all ST MEMS adapters	STEVAL-MKI109V3
SensorTile.box PRO with multi-sensors and wireless connectivity for any intelligent IoT node	STEVAL-MKBOXPRO
Applications	Body monitoring

Schematic diagrams

Figure 1. STEVAL-MKI242A circuit schematic



2 Board versions

Table 1. STEVAL-MKI242A versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI242AA ⁽¹⁾	STEVAL\$MKI242AA schematic diagrams	STEVAL\$MKI242AA bill of materials

1. This code identifies the STEVAL-MKI242A evaluation board first version.

Revision history

Table 2. Document revision history

Date	Revision	Changes
17-Apr-2024	1	Initial release.

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