

STEVAL-MKI109V2

eMotion: ST MEMS adapters motherboard based on the STM32F103RE compatible with all ST MEMS adapters

Data brief

Features

- Compatible with all available ST MEMS adapter boards
- Controlled by the STM32F103RET6 highperformance ARM Cortex[™]-M3 microcontroller
- Includes a DIL24 socket for easy MEMS adapter connection
- 3 V on-board linear voltage regulator
- DFU compatible for USB microprocessor firmware update
- USB 2.0 full-speed compliant
- Debugging connector for SWD/JTAG
- RoHS compliant

STEVAL-MKI109V2

Description

The STEVAL-MKI109V2 is a motherboard designed to provide users with a complete, ready-to-use platform for the evaluation of STMicroelectronics' MEMS products.

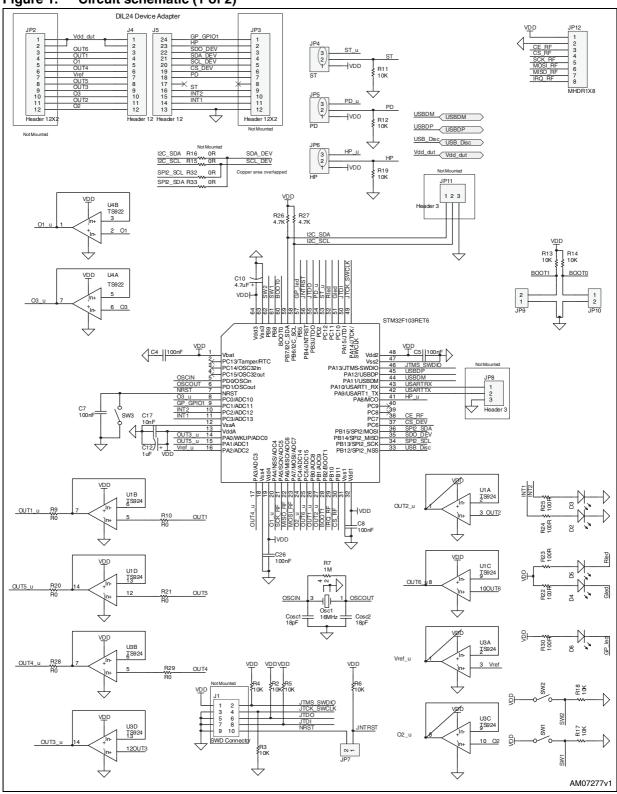
The board features a DIL24 socket to mount all available adapters for both digital and analog output MEMS devices.

The motherboard includes a high-performance 32-bit microcontroller, which functions as a bridge between the sensor and a PC, on which it is possible to use the downloadable graphical user interface (GUI), or dedicated software routines for customized applications.

Schematic diagrams STEVAL-MKI109V2

1 Schematic diagrams

Figure 1. Circuit schematic (1 of 2)



USB_5V 1 TP1 Power Supply VDD Vdd<u>d</u>ut 2 -U2 lds3985xx30 Vin BYPASS ΕN C13 10uF C2 =C3 100nF ✓ 100nF _ C14 (TANT.) 33nF USB_5V VDD VDD ₹R8 10k R39 47k Q1 BC817 Not mounted R1 OR R31 R34 36k USB_Disc BC817 . GND R35 180R √ GND ₹R36 1.5k GND < C6 | 100nF R37 22R USBDM VO1 GND < GND Vbus USBDP VO2 VO2 R38 22R USBLC6-2P6 USB_5V DM DP nc 10uF / GND Mini-USB B ∯ GND USBDM USBDM USBDP USB_Disc USB_Disc Vdd_dut Vdd_dut AM07278v1

Figure 2. Circuit schematic (2 of 2)

Revision history STEVAL-MKI109V2

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Nov-2011	1	Initial release.

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