



STEVAL-MKI109V1

STM32-based MEMS motherboard compatible
with all ST MEMS adapters

Data brief

Features

- Compatible with all available ST MEMS adapter boards
- Controlled by the STM32F102R8 high-performance 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

Description

The STEVAL-MKI109V1 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.



1 Schematic diagrams

Figure 1. Circuit schematic (1 of 2)

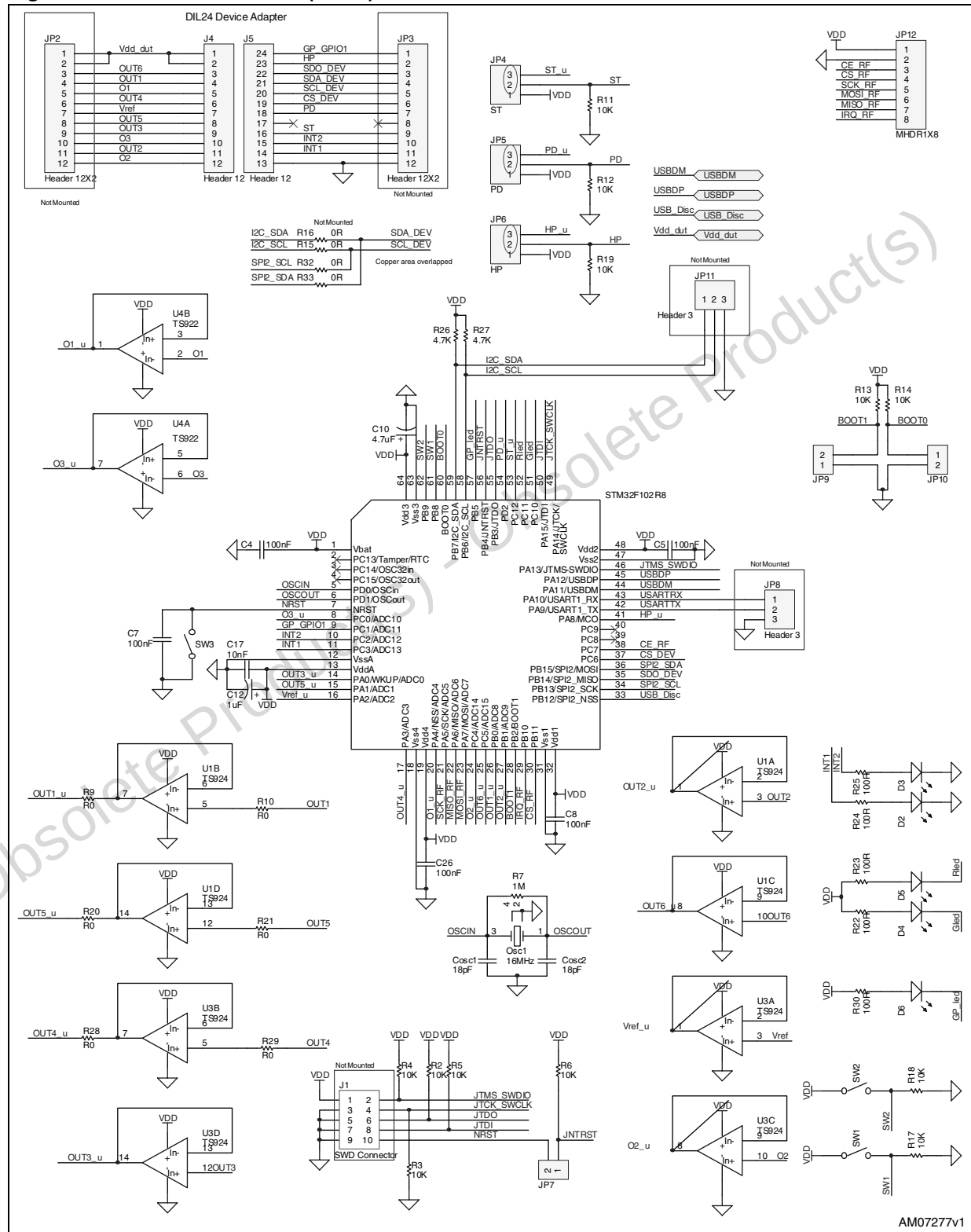
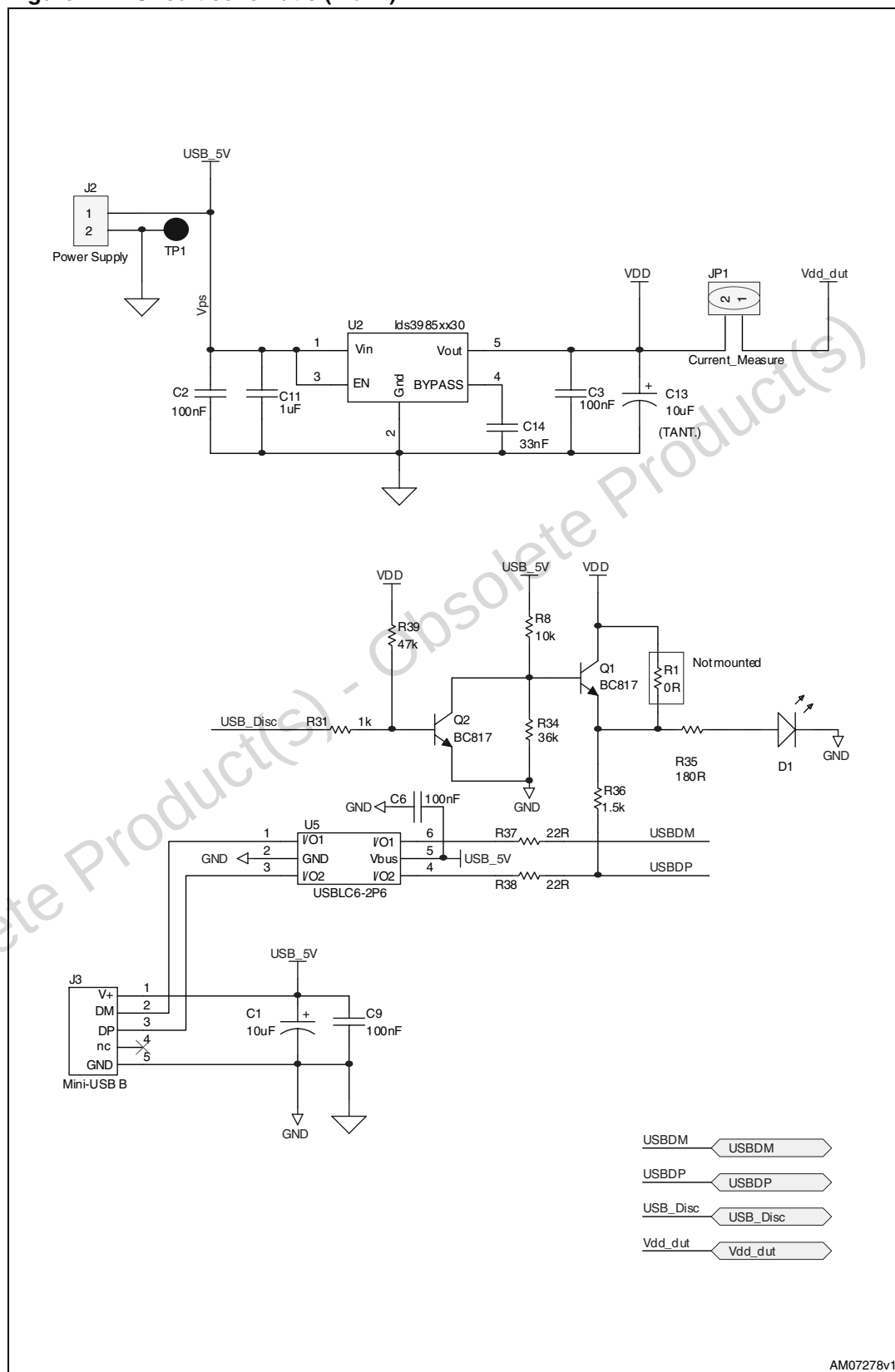


Figure 2. Circuit schematic (2 of 2)



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
16-Jun-2010	1	Initial release.
18-Aug-2010	2	-Enlarged and reoriented schematic diagrams in Figure 1 and Figure 2 to improve readability. -Minor text correction in Figure 1 .

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