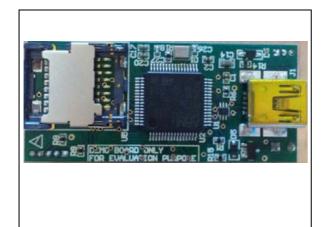


STEVAL-MKI143V1

logMotion motherboard for MEMS adapter boards

Data brief



Features

- Compatible with all available ST MEMS adapter boards
- Controlled by the STM32F103RG highperformance ARM Cortex[™]-M3 microcontroller
- Includes a DIL24 socket for easy MEMS adapter connection
- On-board 3 V 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-MKI143V1 (logMotion) evaluation board is the motherboard in a complete ready-to-use platform designed to aid in the evaluation of MEMS devices mounted on adapter boards.

This STEVAL-MKI143V1 uses an STM32F103RG microcontroller, which allows the storage of data coming from the sensor on the adapter board onto a microSD card. The microcontroller can also function as a bridge between the sensor on the adapter board and a PC either through the Unico graphical user interface (GUI), or through dedicated software routines for customized applications.

The Unico GUI is available for download from st.com.

Schematic diagrams STEVAL-MKI143V1

1 Schematic diagrams

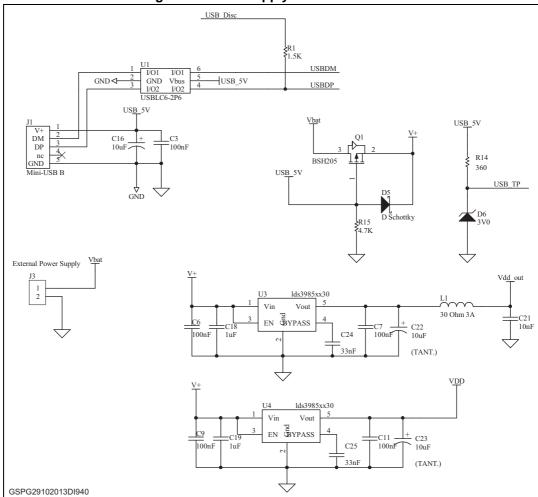


Figure 1. Power supply circuit schematic

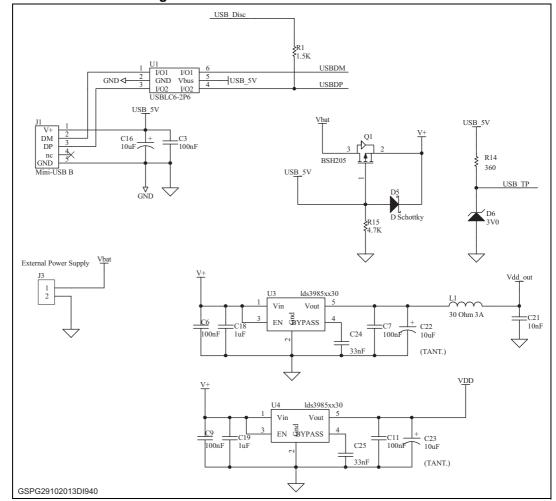
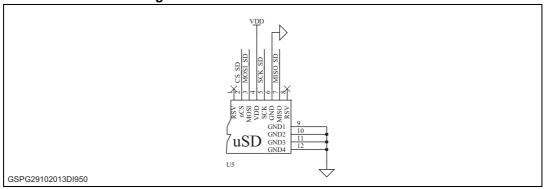


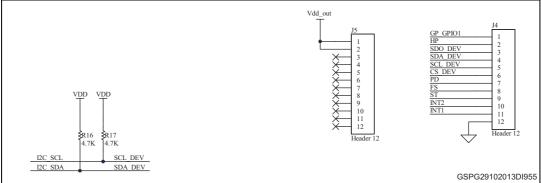
Figure 2. Microcontroller circuit schematic





Schematic diagrams STEVAL-MKI143V1

Figure 4. Adapter circuit schematic



STEVAL-MKI143V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-May-2014	1	Initial release.

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