



STEVAL-MKI022V1

MEMS 3-axis $\pm 2g$ / $\pm 4g$ / $\pm 8g$ smart digital output demonstration board based on nano accelerometer LIS331DLH

Data brief

Features

- Powered directly from USB connector
- I²C/SPI digital output interface
- Sleep to wake-up function
- 6D orientation detection
- Graphical user interface (GUI)
- Both the hardware and software that compose the STEVAL-MKI022V1 demonstration kit have been designed to operate with Microsoft® Windows XP
- RoHS compliant

Description

The STEVAL-MKI022V1 demonstration board is designed to provide the user with a complete, ready-to-use platform for demonstration of the LIS331DLH. The LIS331DLH is a low-power 3-axis linear accelerometer with digital output. The device includes a sensing element and an IC interface capable of translating information from the sensing element into a measured signal that can be used for external applications.

In addition to the MEMS sensor, the demonstration board uses an ST7-USB microcontroller that functions as a bridge between the sensor and the PC. The microcontroller may be used for the GUI which is downloadable from the ST website, or for dedicated software routines for customized applications.



1 Circuit schematic

Figure 1. STEVAL-MKI022V1 demonstration board schematic diagram (1 of 2)

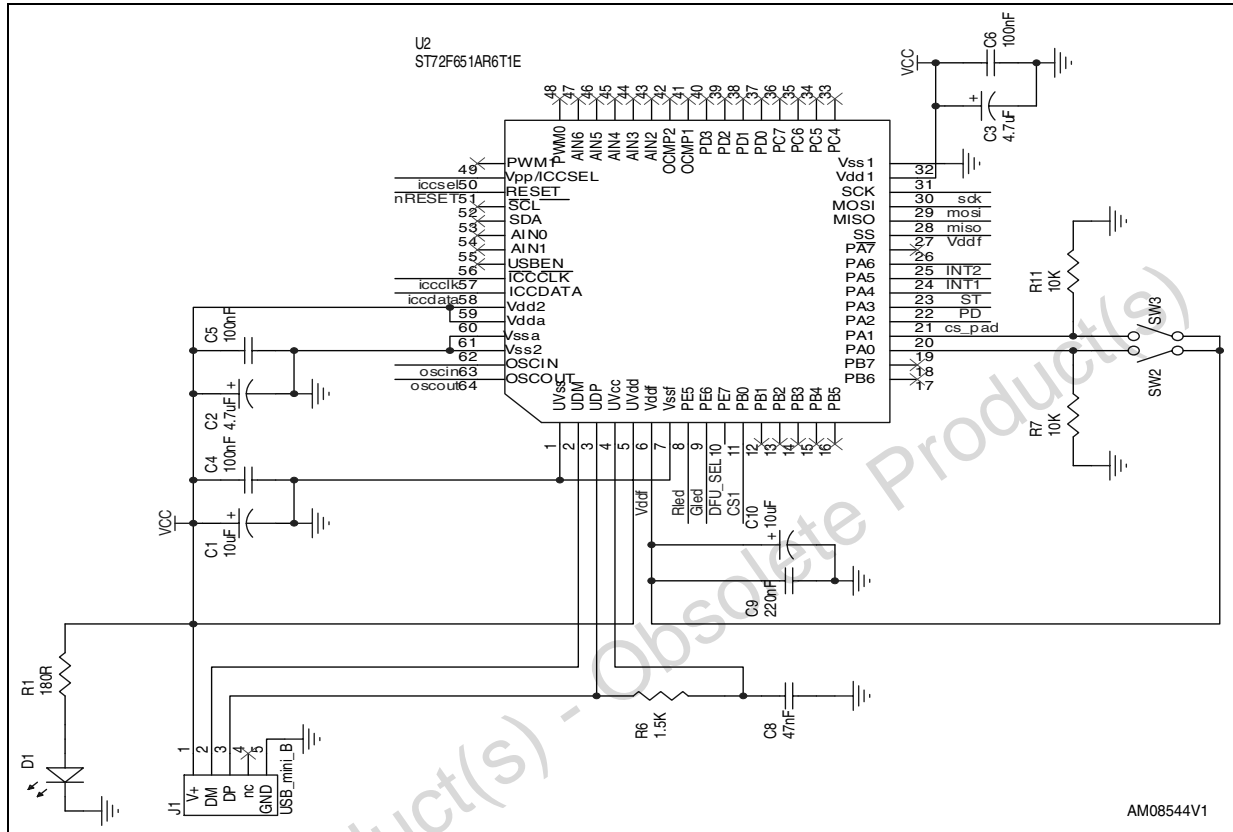
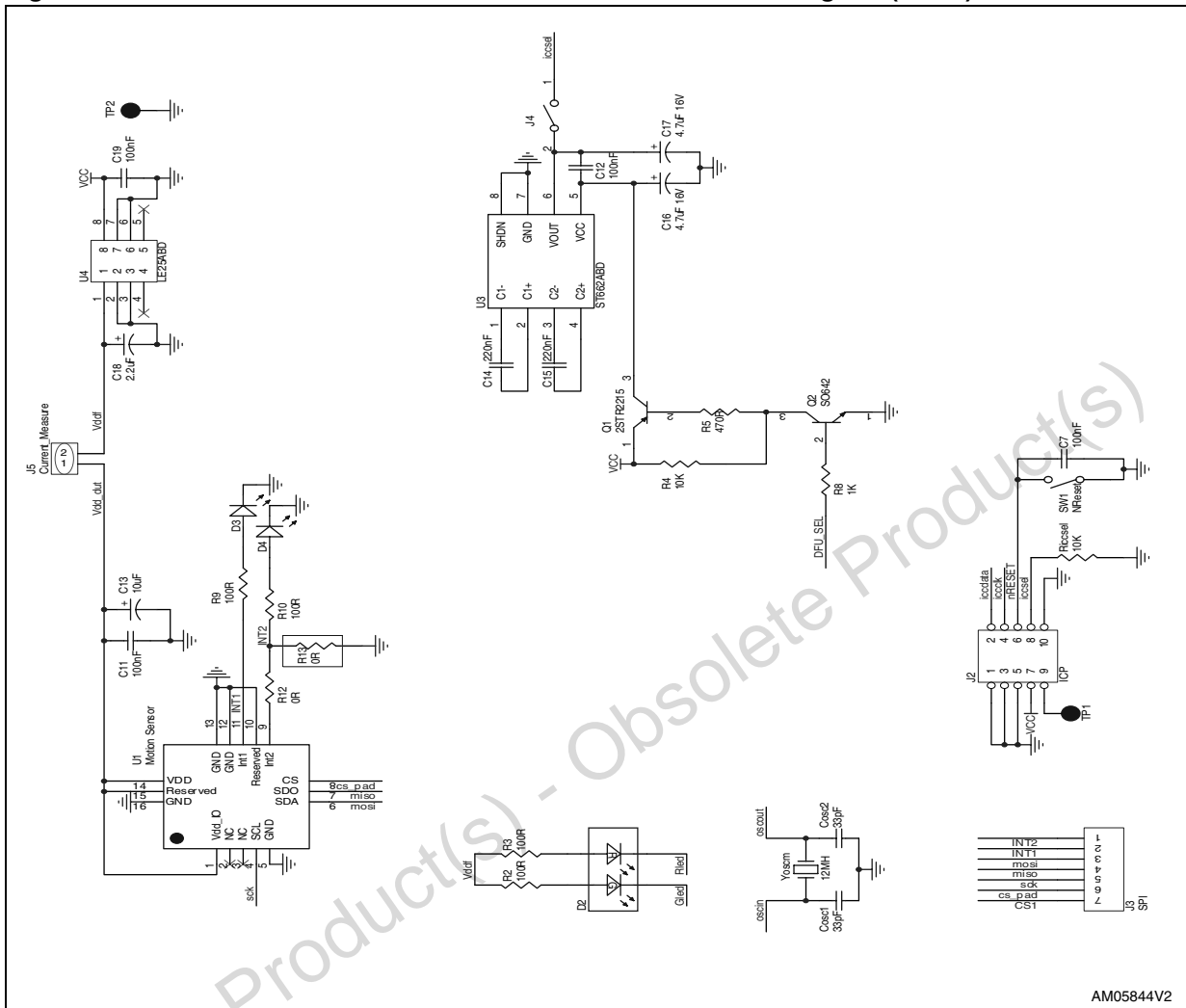


Figure 2. STEVAL-MKI022V1 demonstration board schematic diagram (2 of 2)



AM05844V2

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
19-Nov-2010	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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