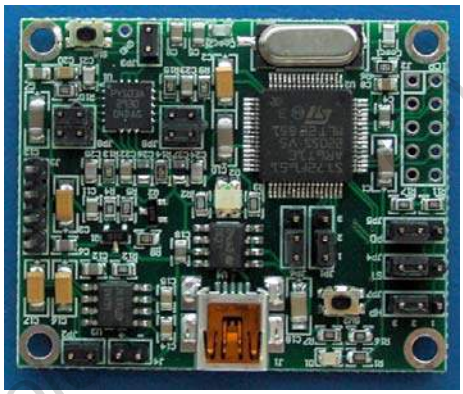
STEVAL-MKI036V1

MEMS analog-output demonstration board based on the LPY503AL ±30°/s and ±120°/s, dual-axis pitch and yaw gyroscope

Data brief

Features

- Two different working modes:
  - analog (AWM)
  - digital (DWM)
- RoHS compliant



STEVAL-MKI036V1

Description

The STEVAL-MKI036V1 demonstration board is designed to provide the user with a complete, ready-to-use platform for demonstration of the LPY503AL product family.

The STEVAL-MKI036V1 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 microcontroller which functions as a bridge between the sensor and the PC. This makes it possible to download the graphical user interface (GUI) from the website or to use dedicated software routines for customized applications.

The STEVAL-MKI036V1 demonstration board has been designed for use in two different working modes: analog and digital.

In analog mode (AWM) the microcontroller on the board is disabled and the analog outputs of the device are available to the user on a dedicated connector. This is the default working mode when the power supply is applied either through the USB connector or through the supply connector.

In digital mode (DWM) the microcontroller on the board is enabled and it allows the user to digitally acquire the output signals of the device, to view them on the PC through the dedicated GUI, and to control the control pins of the device.

Obsolete Product(s) - Obsolete Product(s)

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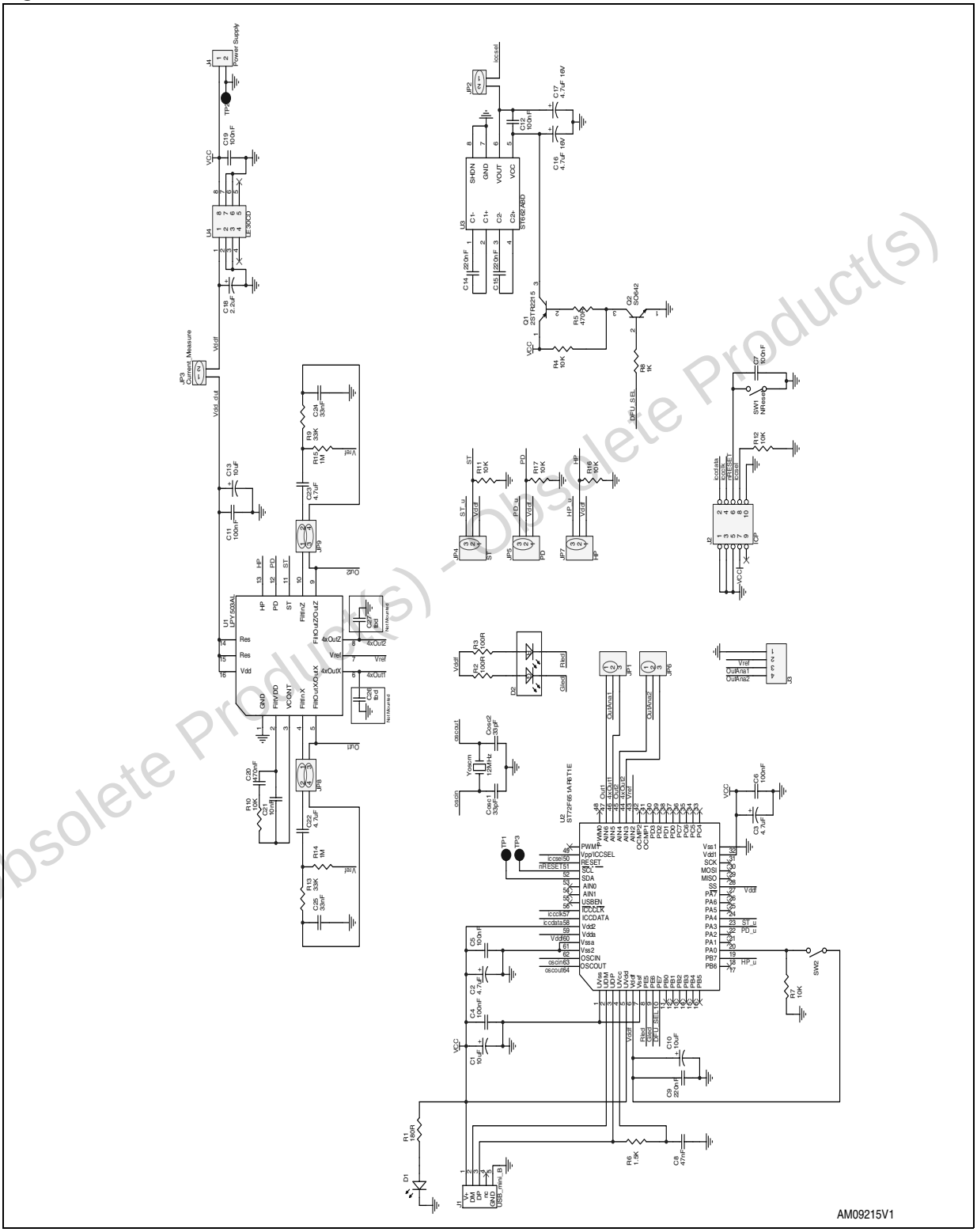
1 Circuit schematic

Figure 1. STEVAL-MKI036V1 schematic



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2 Revision history

Table 1. Document revision history

Date	Revision	Changes
06-Dec-2010	1	Initial release.

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