



STEVAL-MKI021V1

MEMS 3-axis $\pm 2g$ analog-output demonstration board
based on the nano accelerometer LIS331AL

Data brief

Features

- 3-axis, $\pm 2g$ motion sensor with analog output
- embedded self-test
- high shock survivability (up to 10000g per 0.1 sec)
- RoHS compliant

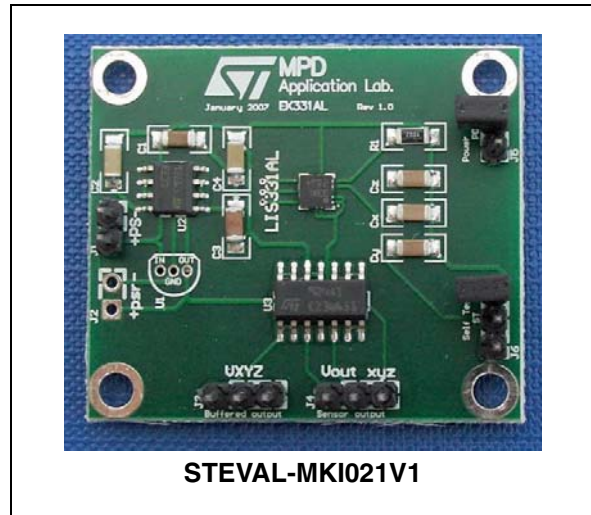
Description

The STEVAL-MKI021V1 demonstration board is designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS331AL.

The LIS331AL is the smallest consumer low-power 3-axis linear capacitive accelerometer. It includes a sensing element and an IC interface capable of taking information from the sensing element and providing an analog signal to an external application.

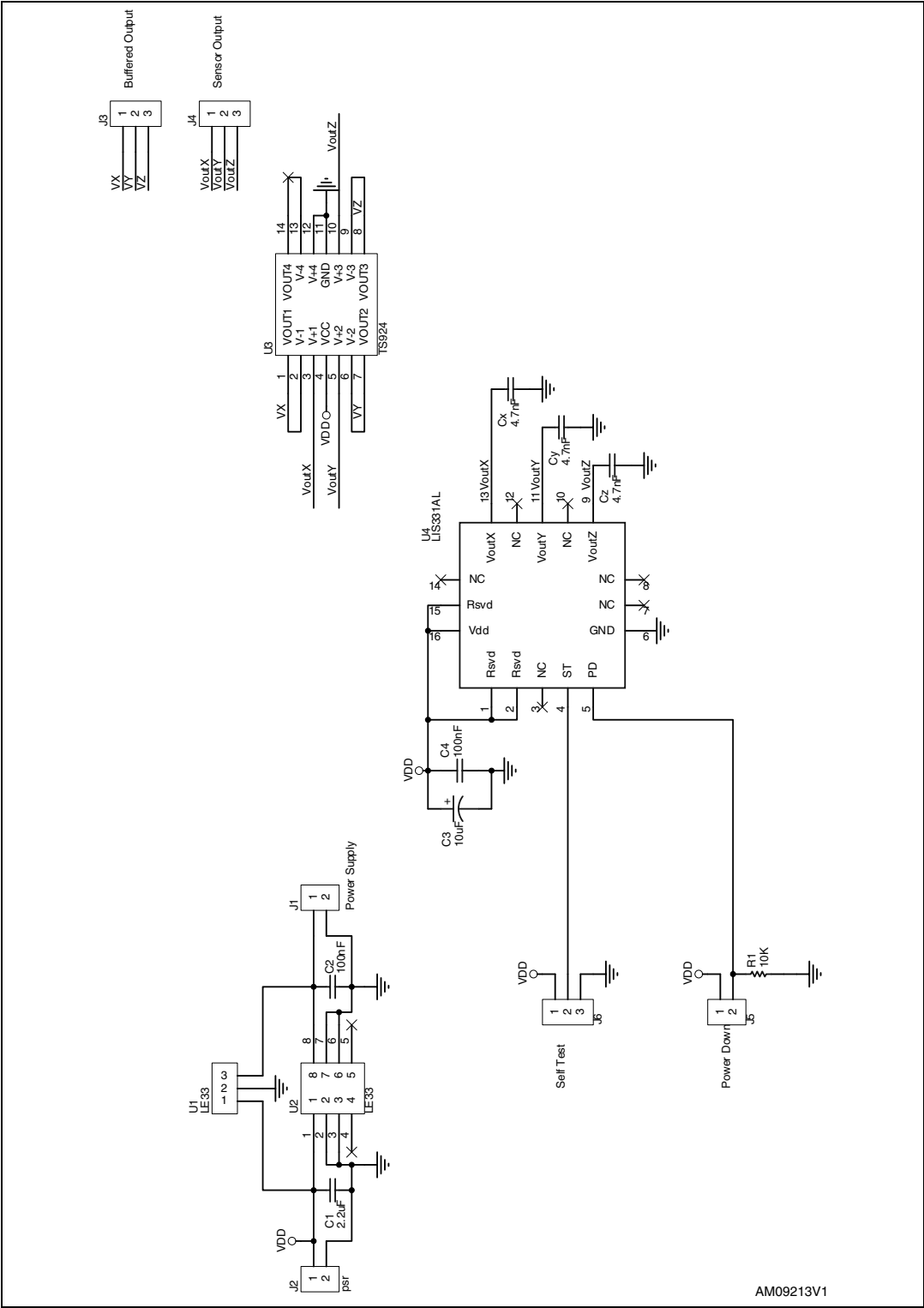
In addition to the MEMS sensor, the system includes a linear voltage regulator and a rail-to-rail low-noise quad amplifier configured as a non-inverting buffer, making both direct sensor outputs and buffered sensor outputs available to the user.

The STEVAL-MKI021V1 also provides an easy mean of controlling the power-down and self-test pins.



1 Circuit schematic

Figure 1. Demonstration board schematic and connection diagram



AM09213V1

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
23-Feb-2011	1	Initial release.

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