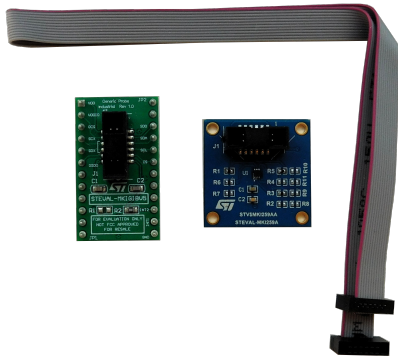


## NMH1000 evaluation kit, based on magnetic switch



### Features

- User-friendly NMH1000 board
- Complete NMH1000 pinout for a standard DIL 24 socket
- Fully compatible with STEVAL-MKI109D evaluation platform
- RoHS compliant

### Description

The **STEVAL-MKI259KA** is an adapter kit designed to facilitate the evaluation of the **NMH1000** magnetic switch.

The kit is composed by a generic DIL24 adapter board (**STEVAL-MKIGIBV5**), a flat cable, and a square PCB mounting the **NMH1000** magnetic switch. The presence of this square PCB ensures to put the sensor board on the system to be measured.

The sensor is soldered precisely in the center of the square PCB to conveniently mount the board on the equipment used for the analysis through double-sided adhesives. Alternatively, the board can be mounted using the holes located in each corner of the PCB.

The **STEVAL-MKIGIBV5** can be plugged into a standard DIL-24 socket. The kit provides the complete **NMH1000** pinout and comes ready to use with the required decoupling capacitors on the VDD power supply line.

The kit is supported by the **STEVAL-MKI109D** evaluation platform, which includes a high-performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable MEMS Studio graphical user interface, or dedicated software routines for customized applications.

| Product summary                                                  |                        |
|------------------------------------------------------------------|------------------------|
| NMH1000 evaluation kit, based on magnetic switch                 | <b>STEVAL-MKI259KA</b> |
| Programmable magnetic switch                                     | <b>NMH1000T1</b>       |
| Professional MEMS tool: evaluation board for all ST MEMS sensors | <b>STEVAL-MKI109D</b>  |
| Applications                                                     | Battery monitor        |

## 1

## Schematic diagrams

Figure 1. STEVAL-MKI259A circuit schematic

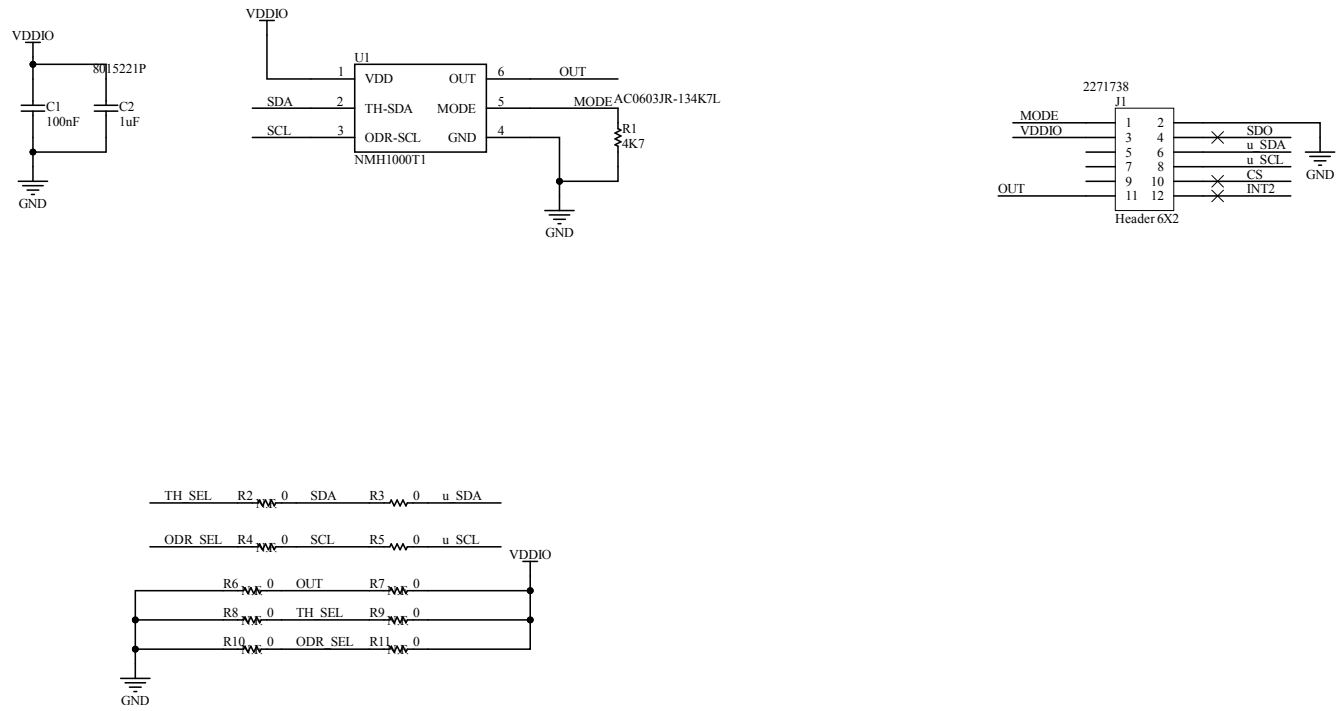
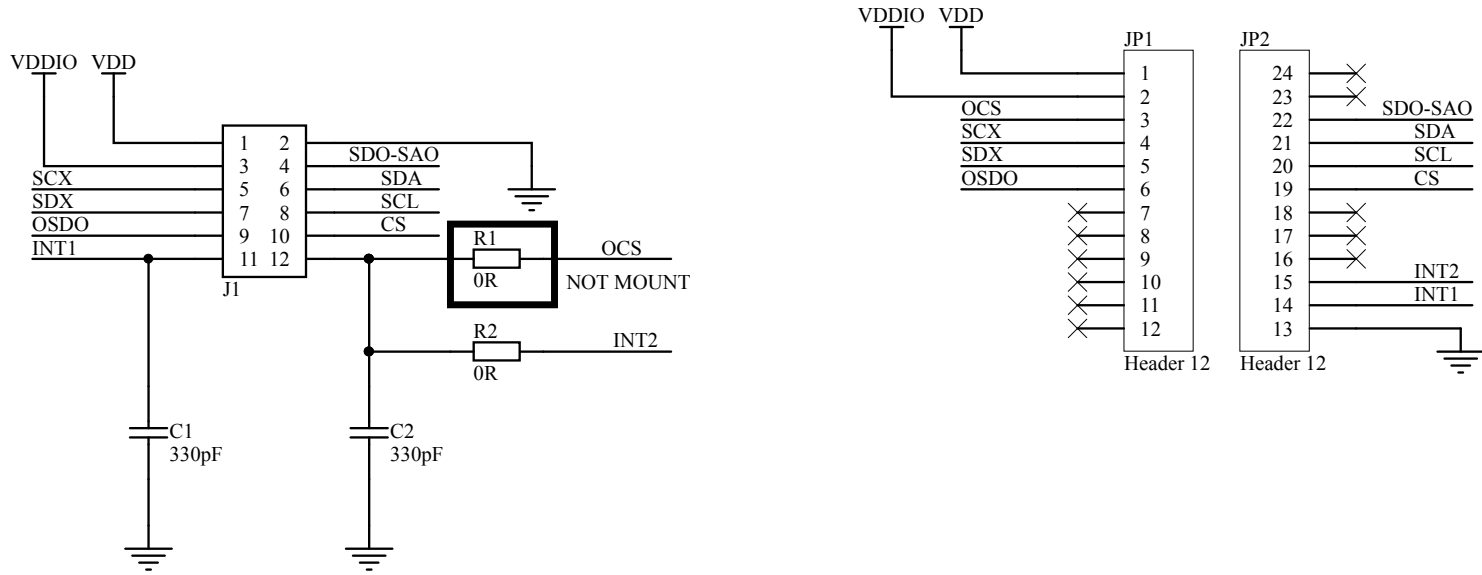


Figure 2. STEVAL-MKIGIBV5 circuit schematic



## 2 Kit versions

**Table 1. STEVAL-MKI259KA versions**

| PCB version                   | Schematic diagrams                                | Bill of materials                                |
|-------------------------------|---------------------------------------------------|--------------------------------------------------|
| STV\$MKI259KAA <sup>(1)</sup> | <a href="#">STV\$MKI259KAA schematic diagrams</a> | <a href="#">STV\$MKI259KAA bill of materials</a> |

1. This code identifies the STEVAL-MKI259KA evaluation kit first version. The kit consists of a STEVAL-MKI259A whose version is identified by the code STV\$MKI259AA and a STEVAL-MKIGIBV5 whose version is identified by the code STEVAL\$MKIGIBV5A.

## Revision history

**Table 2. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 11-Sep-2026 | 1        | Initial release. |

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