



# STEVAL-ICB008V1

## Touch-sensing software library demonstration board based on the STM8S

Data brief

### Features

- Small outline with high density demonstration functions
- Powered by USB port without extra specific equipment/cable
- Two demonstration modes: offline and online
- Direct configuration for demonstration board via PC software
- Touchpad information logging on PC
- SWIM port reserved for debug use
- RoHS compliant

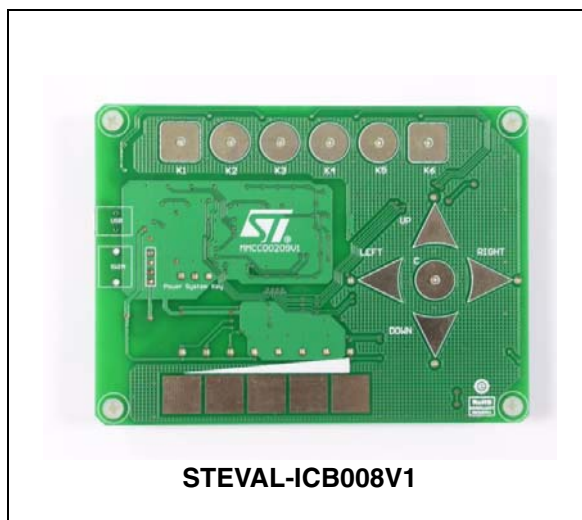
### Description

The STEVAL-ICB008V1 demonstration board is designed on the STM8S RC touch solution enabling users to better understand the functions and performance of STMicroelectronics capacitive touch-sensing. The complete demonstration kit consists of 3 parts: an evaluation board, a PC GUI program and a USB cable (standard-B to mini-B).

Powered by the USB port of the PC, the board can be demonstrated in standalone. 19 LEDs are used to indicate touchpad information, including 11 keys and 1 slider. In addition, there are another 3 LEDs on the board indicating the system general status.

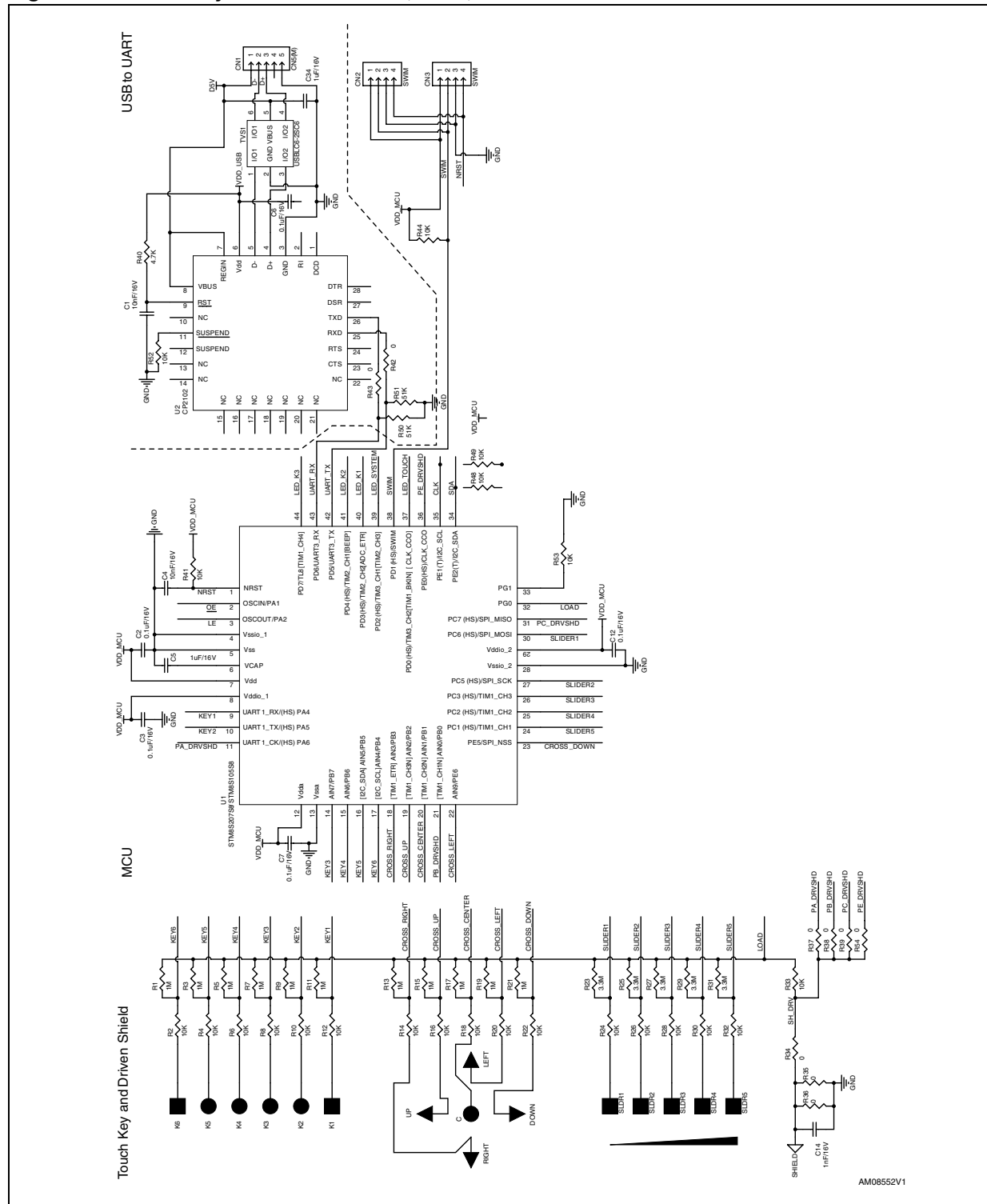
With a PC GUI program, the STM8S RC touch solution provides a simple platform to monitor more detailed information as well as configure critical parameters of the touch-sensing process.

For further details about the solution, please read the technical documentation available on [www.st.com/touch-sense-sw-lib/](http://www.st.com/touch-sense-sw-lib/).

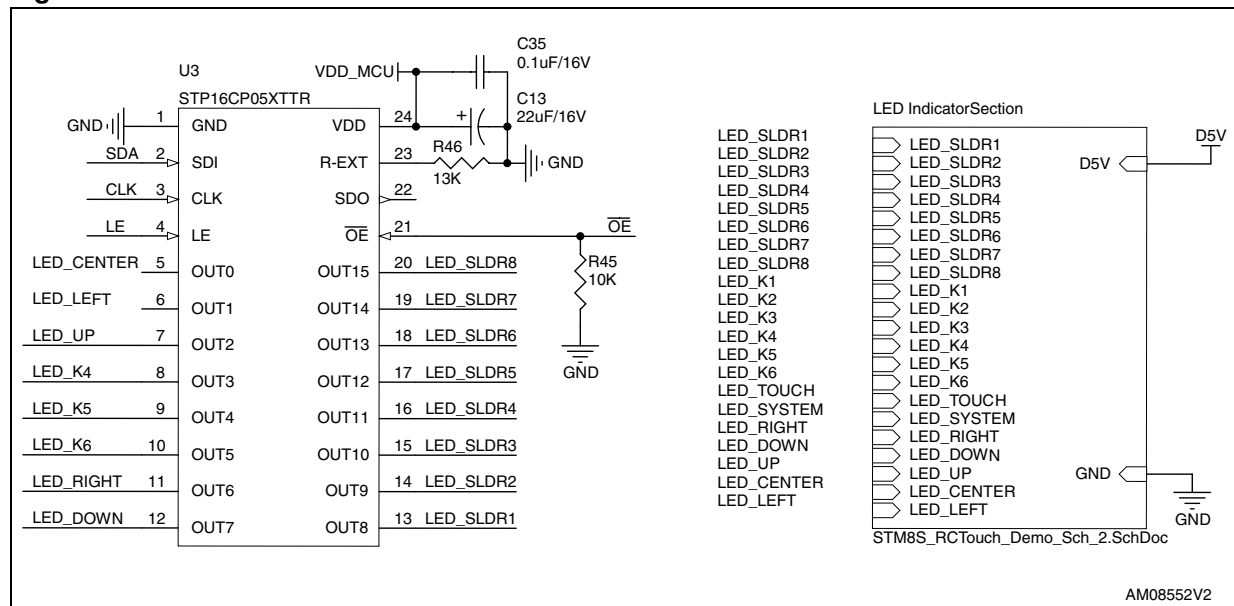


# 1 Circuit schematic

Figure 1. Touchkey and driven shield, MCU, USB to UART



**Figure 2. LED indicator**



**Figure 3. Power supply**

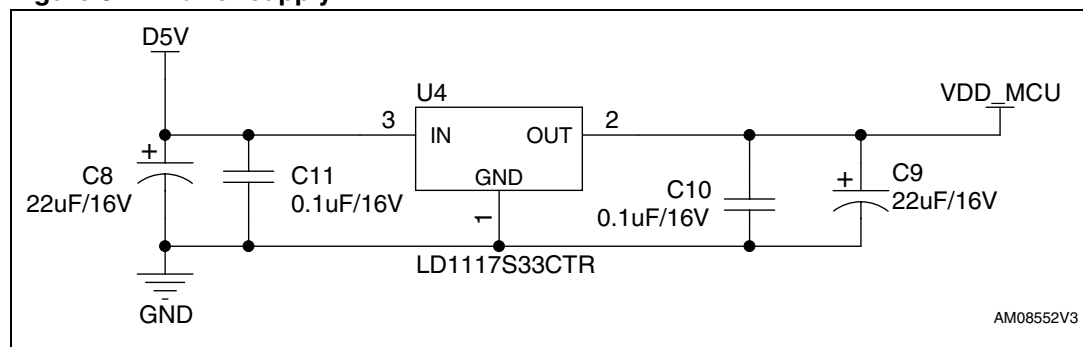
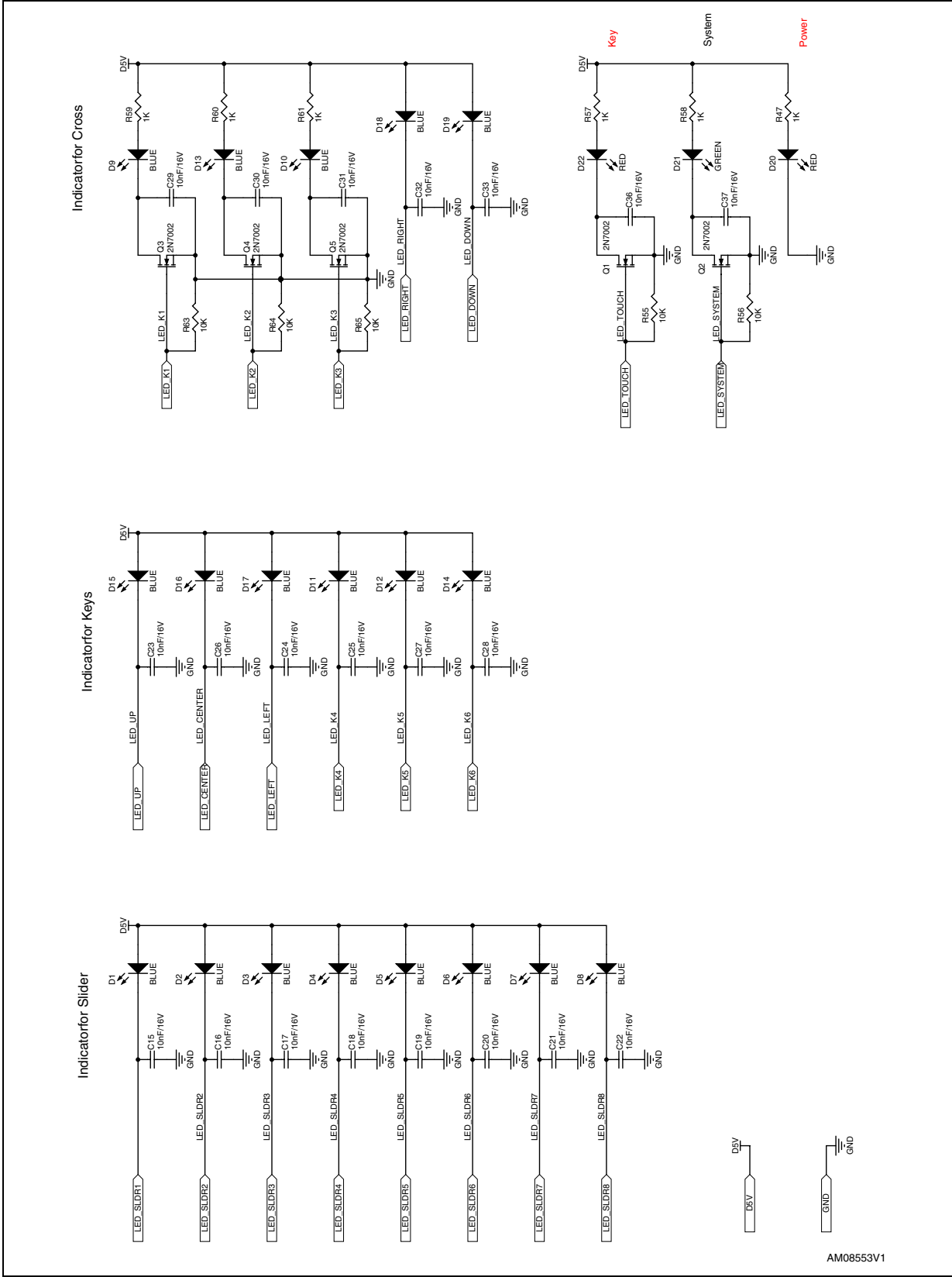


Figure 4. Indicator for slider, indicator for keys, and indicator for cross schematics



## 2 Revision history

**Table 1. Document revision history**

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

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