



# STEVAL-IHM026V1

## Motor control and touch sensing demonstration board based on STM8S207RB

Data brief

### Features

- 6 V power supply
- 6 touchkeys implemented
- Motor control connector
- Sensorless or sensed motor control implemented
- Runs in standard or demonstration mode
- On-the-fly motor control parameter tuning
- Equipped with RS-232 connector, I<sup>2</sup>C connector and IrDA transceiver
- SWIM and STice debug support
- 122 x 32 dot-matrix serial interface LCD module
- RoHS compliant

### Description

The STEVAL-IHM026V1 demonstration board integrates a touch sensing (TS) software library and a 3-phase brushless direct-current (BLDC) motor control (MC) software library, allowing the implementation of a 3-phase brushless motor control application in which user control is managed using a few capacitive touch-sensitive controls.

Although not implemented in the demonstration firmware, additional peripherals have been included in the STEVAL-IHM026V1 to increase flexibility for further development.



# 1 Schematic diagrams

The following schematic diagrams for the STEVAL-IMH026V1 are provided in this section:

- Peripherals (*Figure 1*)
- Microcontroller (*Figure 2*)
- Power supply (*Figure 3*)
- MC connector (*Figure 4*)
- Cap sense input (*Figure 5*)

**Figure 1. Peripherals**

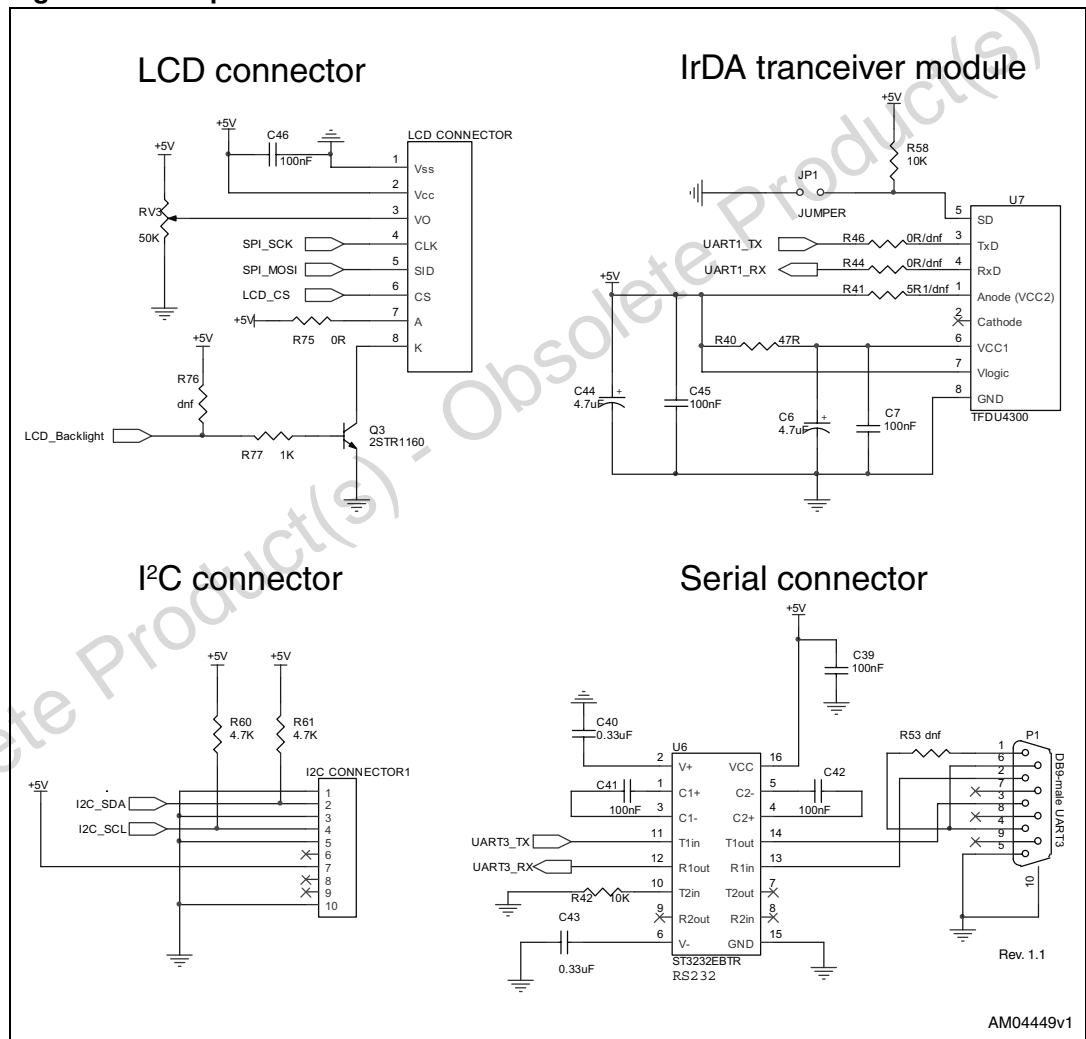


Figure 2. Microcontroller

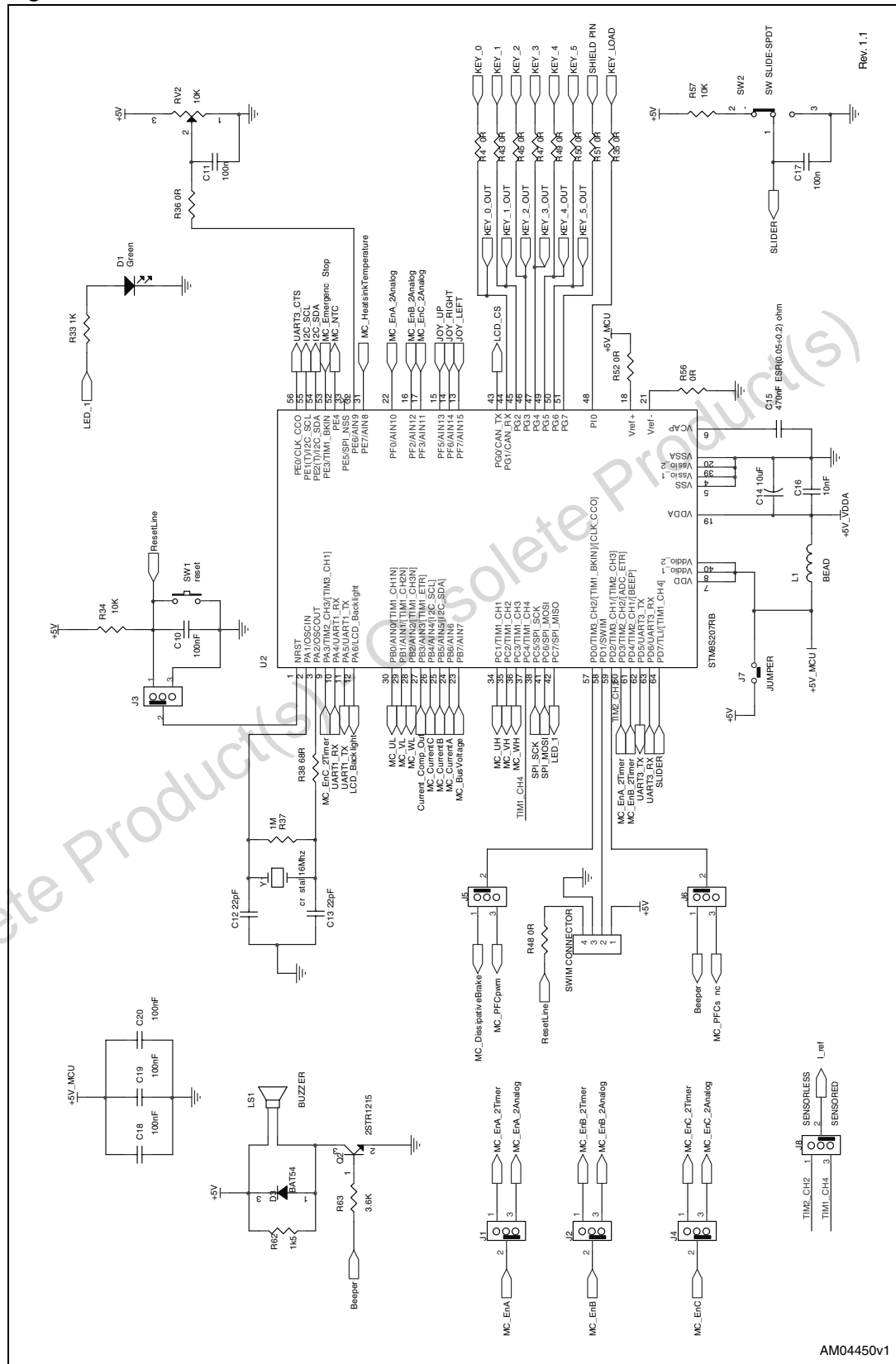


Figure 3. Power supply

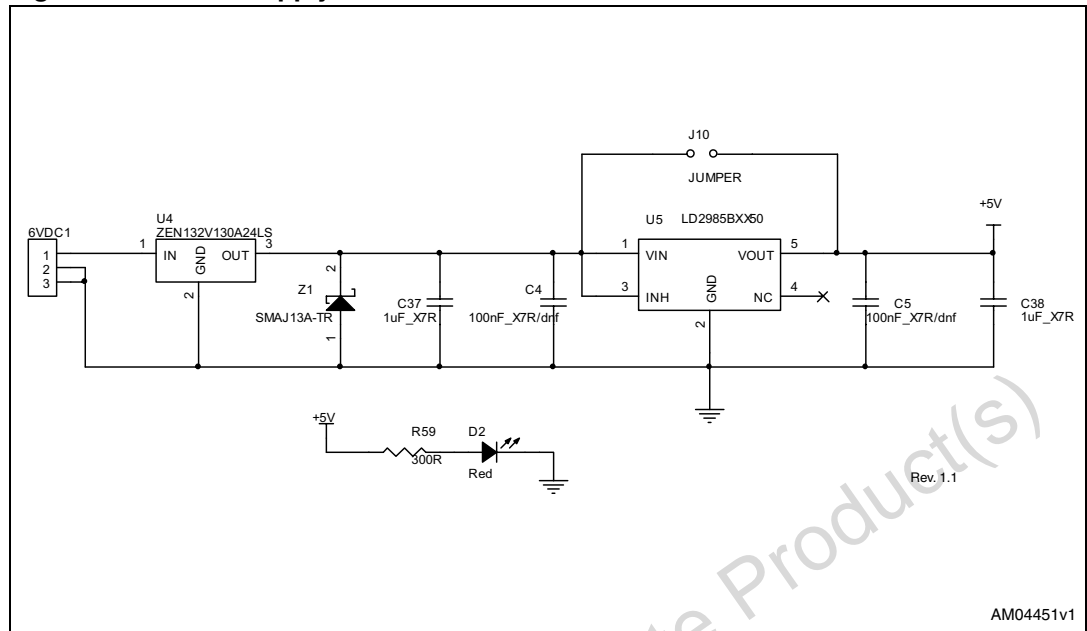


Figure 4. MC connector

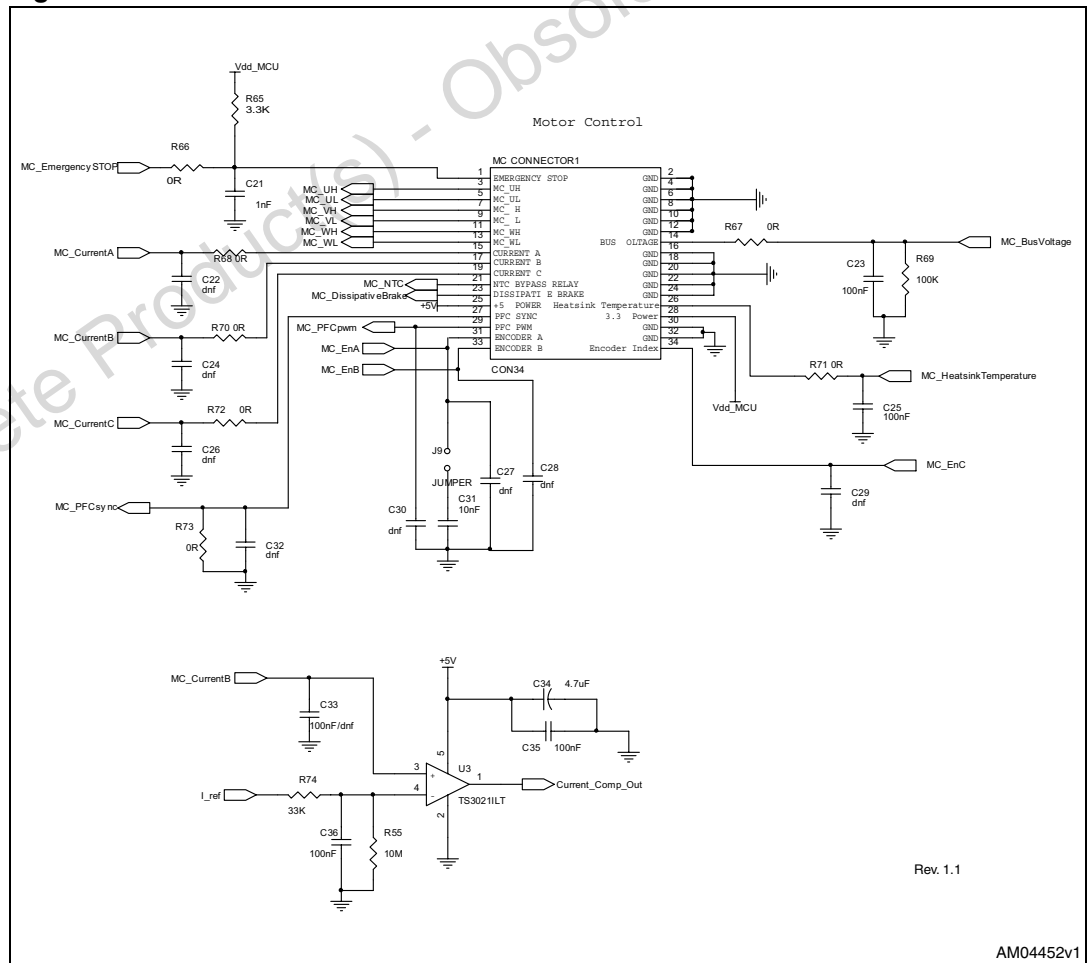
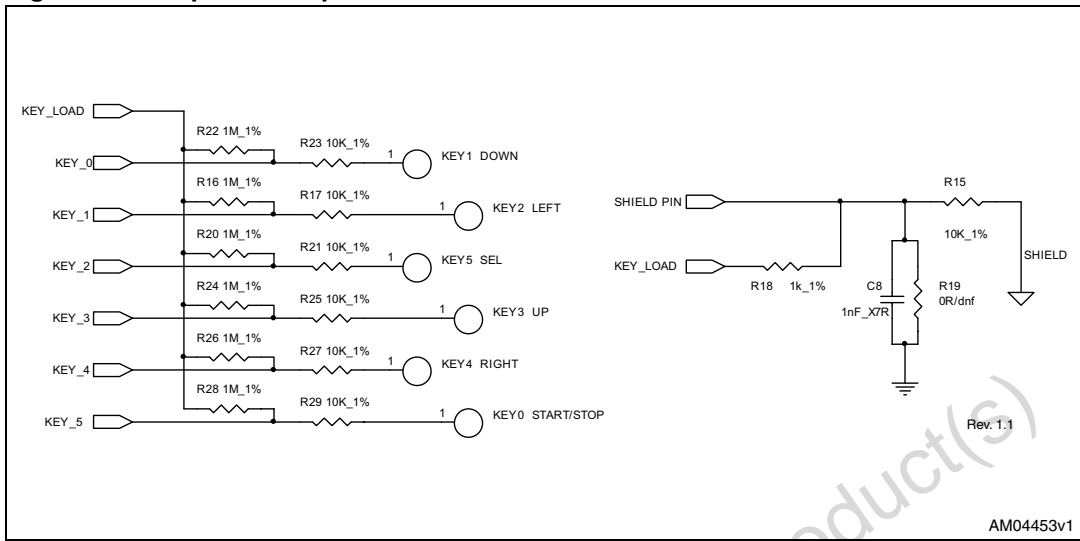


Figure 5. Cap sense input



Obsolete Product(s) - Obsolete Product(s)

## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
29-Oct-2009	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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