STEVAL-ICB001V1

Capacitive touch sensor demonstration board based on the STMPE1208S

Data Brief

Features

- Host software and ST7 source code provide a user-friendly environment for operating the board in:
  - Standalone mode
  - PC GUI mode
- In standalone mode, touch events are displayed on a 64 X 128 monochrome LCD
- Board power is supplied either through a Mini B-type USB connector, or by AAA-size Ni batteries
- The board is equipped with an alternate I^2C path for external control, and an ICC connector to reprogram the ST7 microcontroller Flash memory



STEVAL-ICB001V1

Description

The STEVAL-ICB001V1 demonstration board is based on the capacitive touch sensor STMPE1208S. An ST72F63B microcontroller functions as the I^2C master.

The purpose of the board is to demonstrate the features and capabilities of the STMPE1208S, using a Windows®-based host software application and one of several USB low-speed microcontrollers from ST acting as the control device (in this board the ST72F63B is used).

For the STEVAL-ICB001V1, the ST72F63B microcontroller acts as the I^2C master and controls STMPE1208S device, which functions as an I^2C slave.

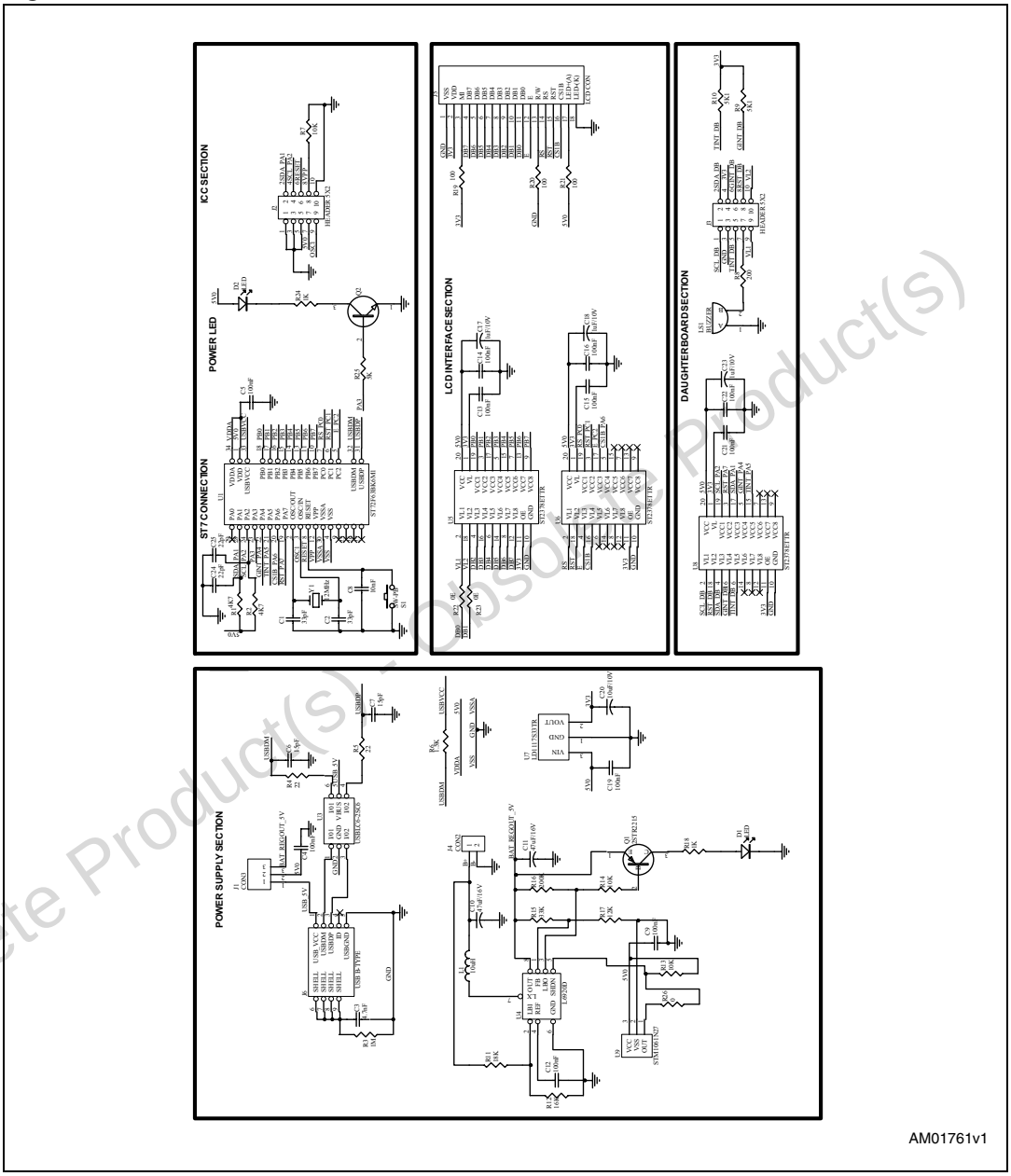
The STMPE1208S device interfaces with the touch keys, slider and rotator. The device senses touch events and provides the information to the ST72F63B via I^2C communication.

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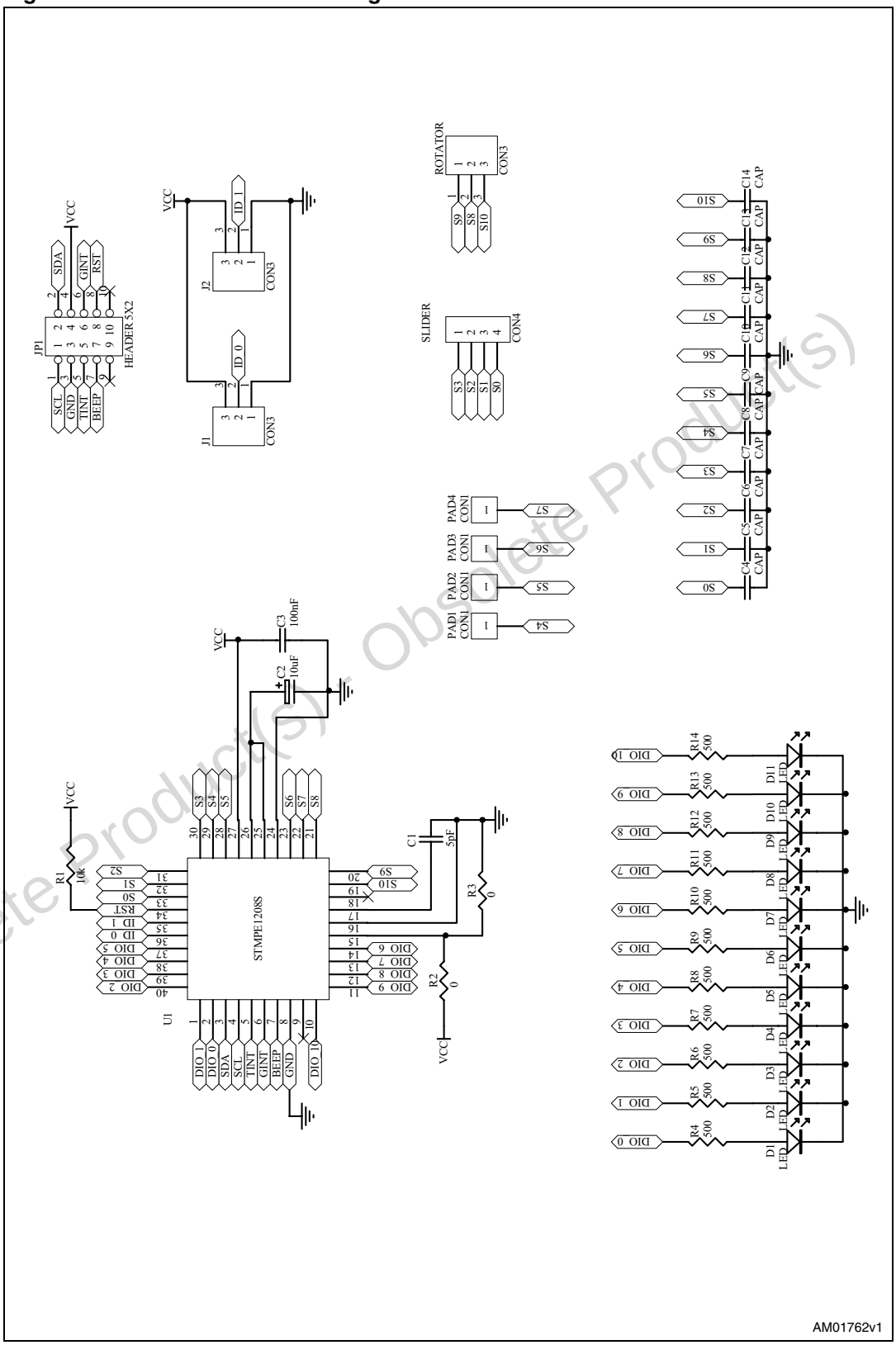
1 Circuit schematics

Figure 1. STEVAL-ICB001V1 mother board schematic



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Figure 2. STEVAL-ICB001V1 daughter board schematic



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2 Revision history

Table 1. Document revision history

Date	Revision	Changes
05-Nov-2008	1	Initial release.

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