## Demonstration board for washing machine user interface based on the ST7LITE49M and STLED316S

## Features

- 8-bit ST7Lite49M MCU with ${ }^{2} \mathrm{C}$ bus

■ STLED316S LED driver with key-scan
■ 3 displays and 32 LEDs as graphic interface
■ ICC connector and extra $\mathrm{I}^{2} \mathrm{C}$ bus connector
■ Wheel with 19 different washing programs
■ Powered directly from an AC notebook computer power supply

- Additional program settings and adjustable spin speed
■ Adjustable LED brightness and lamp-test button
- Fully stand-alone washing machine-like simulation

■ Connector to plug a daughter board (with automatic detection)

## Description

The STEVAL-IHI001V1 is a demonstration board designed to simulate the user interface of a modern washing machine.

The board is based on the low-cost 8-bit ST7LITE49M microcontroller equipped with an ${ }^{2} \mathrm{C}$ bus interface, and the STLED316S serial interfaced 6-digit LED controller with key-scan.

The demonstration board is designed to work as a stand-alone application, or as a motherboard for the STEVAL-IHI002V1 daughter board, which features the STMPE1208S capacitive sensing device and can be plugged into the STEVALIHI001V1 to operate as a capacitive single touch keyboard.


## 1

Circuit schematic

Figure 1. Schematic


## 2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
| :---: | :---: | :--- |
| $27-$ Nov-2008 | 1 | Initial release. |

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