

# ISL88694EVAL

## User Guide

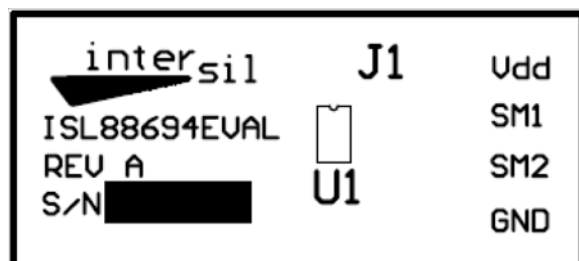
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### Description

The ISL88694EVAL board is designed for the customer's use in exploring the operation of the ISL88694 SMBus Accelerator IC. It provides an easy way to connect the device into a system or to check the performance of the ISL88694 device.

### Pinout

ISL88694EVAL BOARD  
TOP VIEW



### Ordering Information

| PART NUMBER  | DESCRIPTION                       |
|--------------|-----------------------------------|
| ISL88694EVAL | Evaluation board for the ISL88694 |

### Features

- Complete SMBus accelerator for both clock and data lines.
- Easy to use board for evaluation in the customer's application.
- Exposed soldering pads/pins for connecting to the supply and SMBus lines.

### What is inside

The Evaluation Kit contains:

- ISL88694EVAL board
- The ISL88694 Data Sheet
- The ISL88694EVAL Users Guide (this document)

### What is needed

The following instruments will be needed to perform testing:

- Power supply:
  - +2.7 to +5.5V
- Oscilloscope

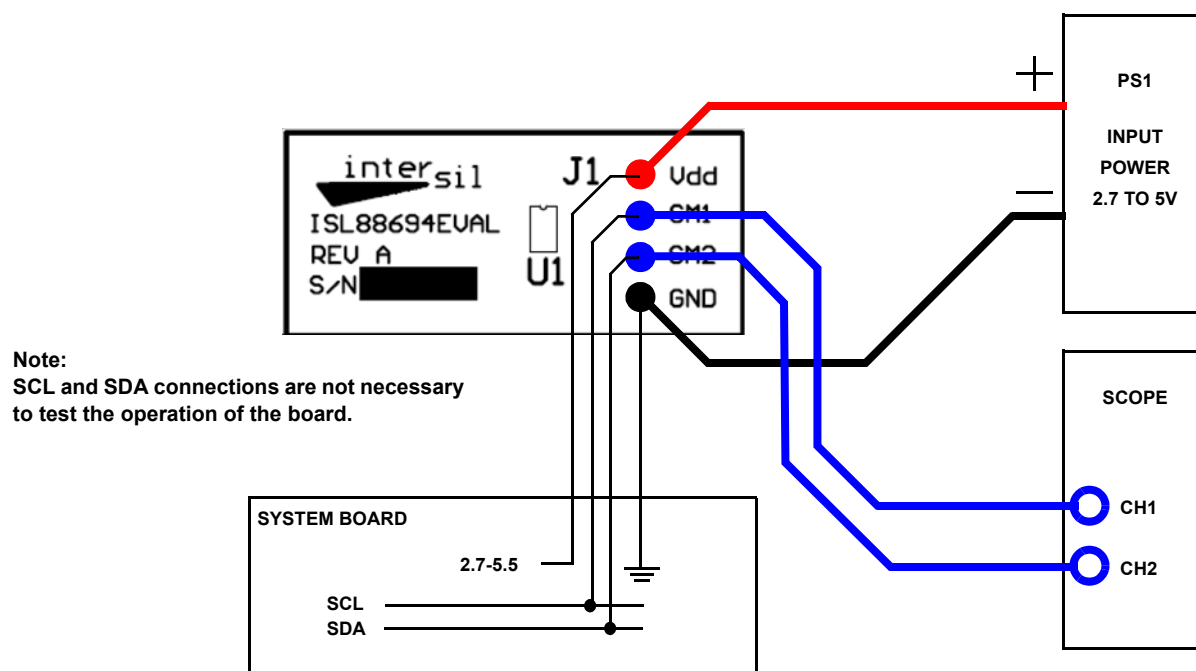


FIGURE 1. ISL88694 APPLICATIONS/TEST CONNECTION

## Quick Setup

See Figure 1.

Step 1: With system powered down, connect a 2.7V to 5.5V power supply between  $V_{DD}$  and GND.

Step 2: Connect SM1 and SM2 to the system board's SCL and SDA bus lines (either connection is accepted).

Step 3: Turn on Power Supply.

Step 4: The SMBus lines will power up to a high state unless held low by a device. The turn-on time should be independent of any pull-up resistors on the system board.

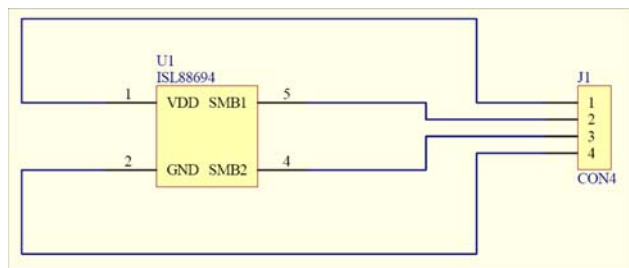


FIGURE 2. ISL88694EVAL SCHEMATIC

## Board Test Procedure

Connect board as shown in Figure 1. Set the scope for a single trigger on the  $V_{DD}$  rising edge and set the  $V_{DD}$  to 2.7V. Power up the supply and observe the waveform of Figure 3.

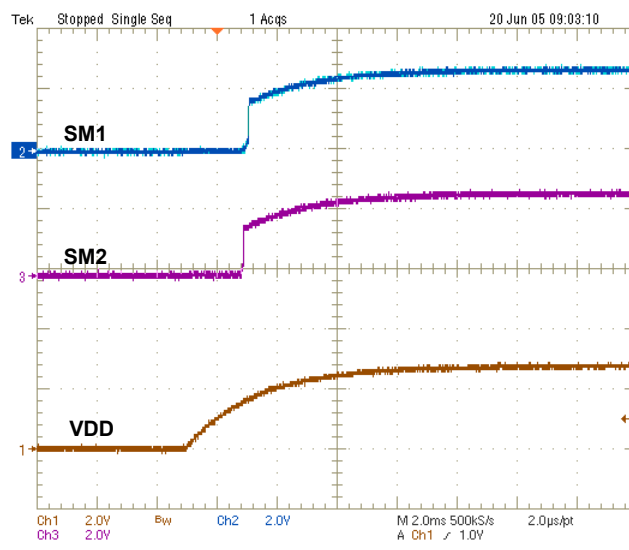


FIGURE 3. TYPICAL SM1 AND SM2 TURN ON

## Bill of Materials for ISL88694

| DESIGNATOR | PART TYPE     | FOOTPRINT | QTY |
|------------|---------------|-----------|-----|
| U1         | ISL88694IH5Z  | SOT23-5   | 1   |
| J1         | Not populated |           | 1   |

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