

SONiX LED Driver

SLED1735 Starter-kit User Guide

V1.0

1. Description

The SLED1735 Starter -kit is built up four kinds of LED matrix. That feature enables customers can choose the best configuration and the chip can drive up to 256 LED lights or 75 RGB LED lights maximum. In the LED matrix of SLED1735 series, each LED has on / off, blinking, breathing light and audio input, automatic synchronization and many other functions. The PWM (pulse width modulation) technology incorporated in the chip can provide 256-level brightness adjustment and it also equipped with 16-level dot correction function.

2. Features

- The Starter -kit supports 2.7V to 5V power supply system.
- The Starter -kit supports I2C and SPI two transmit interfaces.

3. Starter-Kit



For product information and a complete list of distributors, please go to our web site:

www.sonix.com.tw

本資料為松翰科技股份有限公司專有之財產，未經書面同意不准透露、使用，亦不准複印或轉變成任何其他形式使用。The information contained herein is the exclusive property of SONIX and shall not be distributed, reproduced or disclosed in whole or no in part without prior written permission of SONIX.



- SW1 : Adapter voltage switch.
- JP1 : 7.5V adapter input.
- JP2 : LDO 5V output.
- J2 : VDD connector.
- J1 : GND connector.
- J5 : I2C address select.
- J6 : I2C interface connector.
- J7 : I2C pull-up connector.
- J8 : SPI interface connector.
- JP3 : SPI and I2C mode select. (MSEL = VDD is SPI, and MSEL = GND is I2C)
- U2 : SLED1735JG.
- J9 : Audio source input.
- J3 : LED driver channel connector.
- J4 : LED boards connector.

4. Recommended Equipment

- 5.0V, 1A power supply.
- Audio source.(i.e. MP3 player, Notebook PC, etc)

5. Absolute Maximum Ratings

- $\leq 5.5V$ power supply.

※ Caution: Do not exceed the conditions listed above, otherwise the board will be damaged.

6. Starter-Kit Operation for SPI

- MSEL (JP3) is connected to VDD before system power on.
- Remove I2C SCL ,SDA pull-up (J7) and I2C AD pin (J5).
- Use SPI interface (J8) with MCU.

7. Starter-Kit Operation for I2C

- MSEL (JP3) is connected to GND before system power on.
- I2C AD pin (J5) is connected to VDD, VSS, SCL, or SDA.
- I2C SCL and SDA pull-up(J7) is connected.
- Use I2C interface (J6) with MCU.

For product information and a complete list of distributors, please go to our web site:

www.sonix.com.tw

本資料為松翰科技股份有限公司專有之財產，未經書面同意不准透露、使用，亦不准複印或轉變成任何其他形式使用。The information contained herein is the exclusive property of SONIX and shall not be distributed, reproduced or disclosed in whole or no in part without prior written permission of SONIX.



8. Revised History

Version	Date	Description
1.0	2017/02/15	1.Created

For product information and a complete list of distributors, please go to our web site:

www.sonix.com.tw

本資料為松翰科技股份有限公司專有之財產，未經書面同意不准透露、使用，亦不准複印或轉變成任何其他形式使用。The information contained herein is the exclusive property of SONIX and shall not be distributed, reproduced or disclosed in whole or no in part without prior written permission of SONIX.

