

### STEVAL-ILL062V1

### High brightness LED array driver based on the STP16CPC26

Data brief

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### **Description**

The STEVAL-ILL062V1 evaluation board is a high brightness LED array driver application based on the 16 channel, constant current LED sink driver STP16CPC26 from STMicroelectronics.

The LED driver is configured and controlled through an 8-bit STM8S microcontroller via SPI interface.

The industrial-grade L7981D DC-DC converter provides the voltages and power for the overall functioning of the board.

#### **Features**

- · Demonstrates pre-configured patterns (with adjustable brightness/speed) such as rolling text, wave effect, dot sequence, etc.
- LED test points
- Potentiometer to change brightness and speed of patterns
- SWIM connector to program microcontroller
- Push buttons (backward/forward) to change between modes

For further information contact your local STMicroelectronics sales office.

- DC supply connector: 6 V 24 V
- 32 white LEDs
- RoHS compliant

Schematic diagrams STEVAL-ILL062V1

## 1 Schematic diagrams

Figure 1. Power section

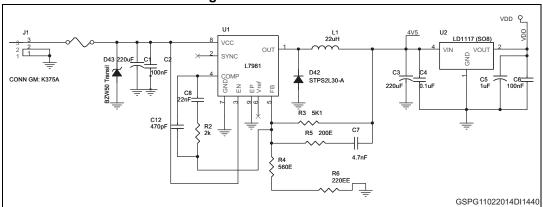
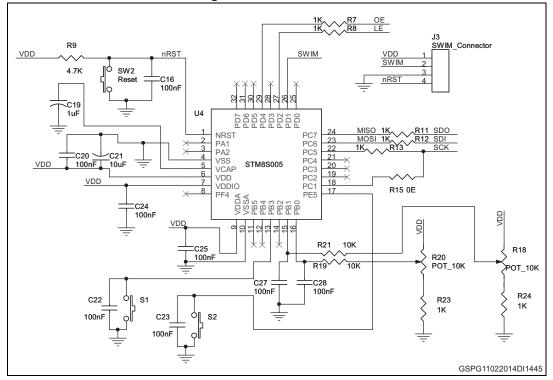


Figure 2. Microcontroller





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Figure 3. Jumpers to simulate open circuit

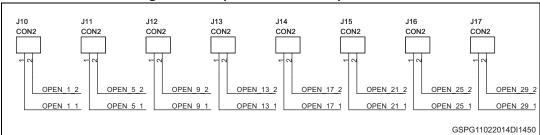
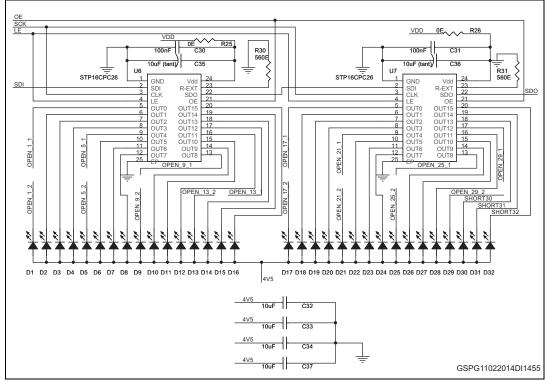


Figure 4. LED driver





Revision history STEVAL-ILL062V1

# 2 Revision history

**Table 1. Document revision history** 

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 07-Aug-2014 | 1        | Initial release. |

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