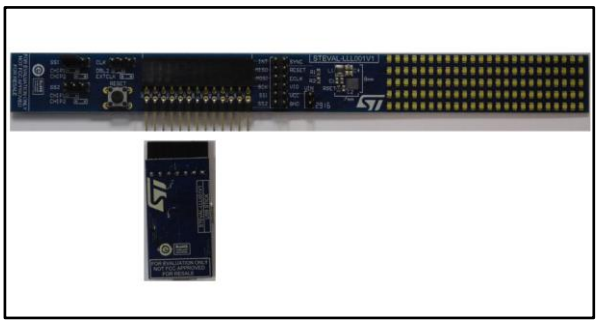
STEVAL-LLL001V1

STLED524 evaluation kit (5 x 24 matrix LED display driver)

Data brief



Features

- Operating input voltage from 2.7 V to 5.5 V
- Drives 5 x 24 LED matrix
- Luminance separately adjustable for each LED by internal registers in 255 steps
- Internal registers capable of storing two patterns
- 4-way scroll function with a possibility to lock column data
- 255-step PWM dimming
- SPI interface
- Integrated step-up converter with adjustable output voltage
- Integrated LDO with 3.1 V output at 80 mA
- CSP 56 bumps 0.4 mm pitch 3.4 x 3.0 mm
- RoHS compliant

Description

The STEVAL-LLL001V1 board is designed to demonstrate the features of the STLED524 intelligent matrix LED display driver with a 5 x 24 matrix of SMD white LEDs incorporated on the board.

Two boards can also be joined using the on-board connectors to drive a 10 x 24 LED matrix.

The board is driven by the USB control board for interface with the graphical user interface (GUI), but there is also an SPI interface connector on the STEVAL-LLL001V1 which can be used for customized control.

For further information contact your local STMicroelectronics sales office

www.st.com

1 Schematic diagrams

Figure 1: STEVAL-LLL001V1 circuit schematic (1 of 2)

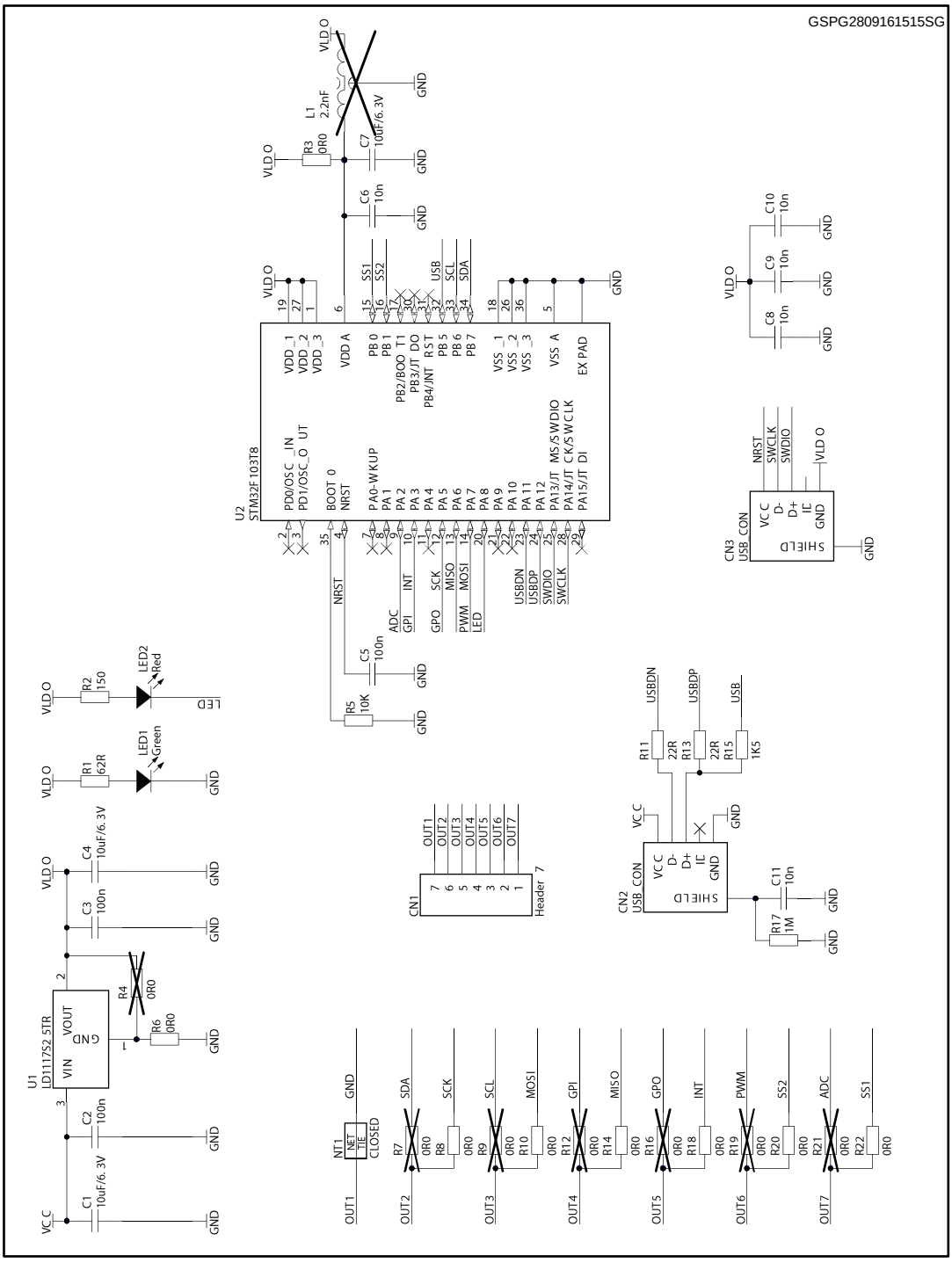
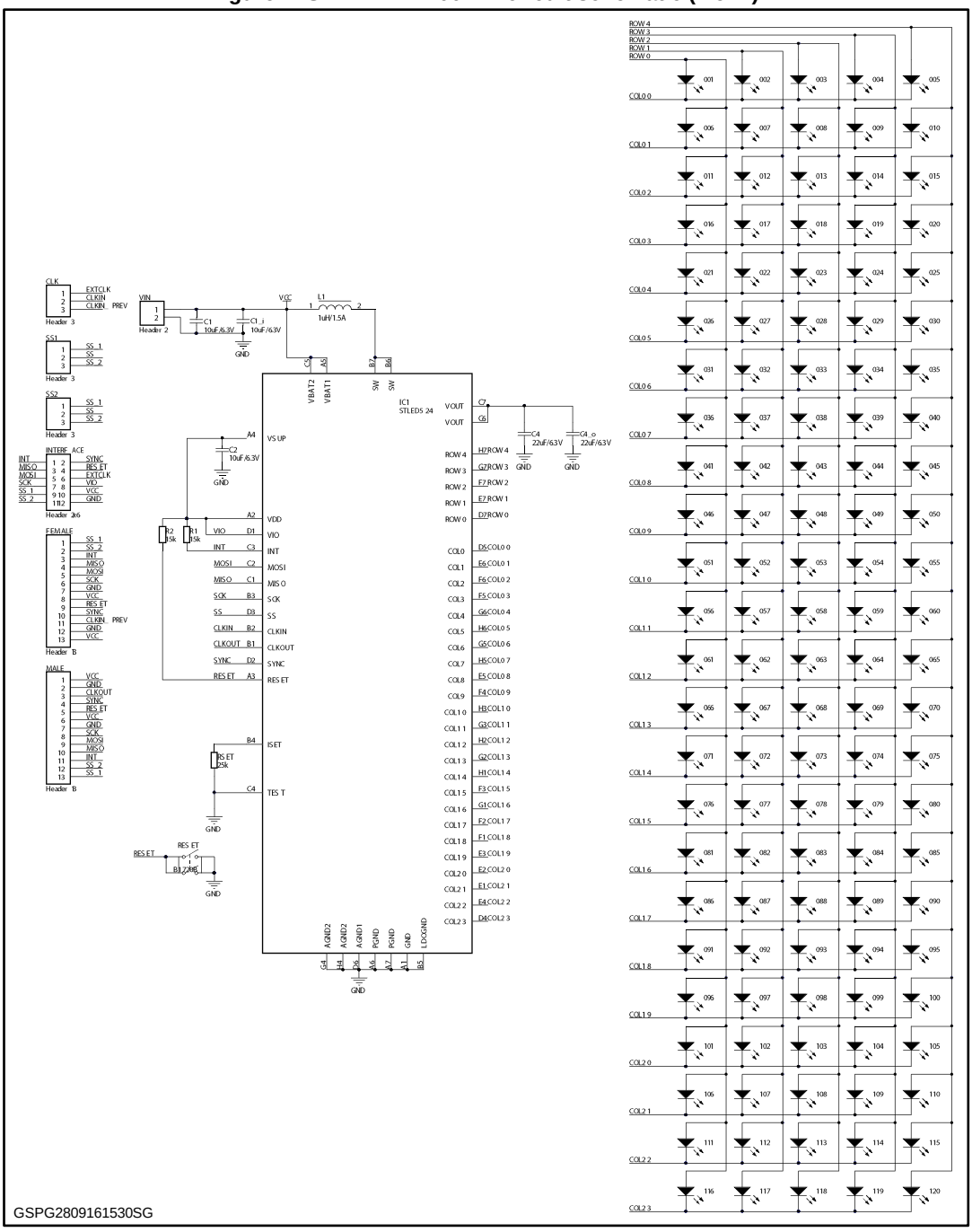


Figure 2: STEVAL-LLL001V1 circuit schematic (2 of 2)



2 Revision history

Table 1: Document revision history

Date	Version	Changes
07-Oct-2016	1	Initial release.
09-Nov-2016	2	Updated: title, features and description on the cover page.