Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

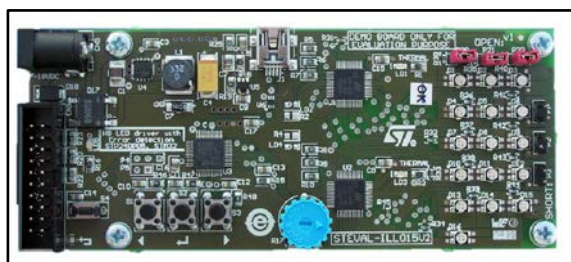## Contact us

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STEVAL-ILL015V2

HB LED driver with diagnostics based on the LED2472G and STM32

Data brief

Features

- Two LED2472G devices (TQFP48 package) connected to 3 x 16 RGB high-brightness LEDs
- STM32 microcontroller
- Cost-effective internal high-side oscillator
- JTAG interface for microcontroller firmware changes/updates
- Mini USB connector for interconnection with a PC GUI
- Test points on the board for each important signal aid laboratory evaluation
- Buttons and knob to control the board

- Error and overtemperature flag for each LED driver
- 3 jumpers to simulate the disconnection of 3 LEDs
- 3 jumpers to simulate the shorting of 3 LEDs
- Highly efficient ST1S010 DC-DC switching power supply
- Input: 7.5 V to 18 V, 0.7 A
- RoHS compliant

Description

The STEVAL-ILL015V2 product evaluation board provides a platform to test and evaluate the power logic LED driver LED2472G from STMicroelectronics.

The LED2472G is a 24-bit constant-current LED sink driver with output error detection, suitable for applications such as large-area displays and full-color board panels where improvement in RGB LED resolution and reduction of system cost are important.

Figure 1: STEVAL-ILL015V2 schematic with CPU
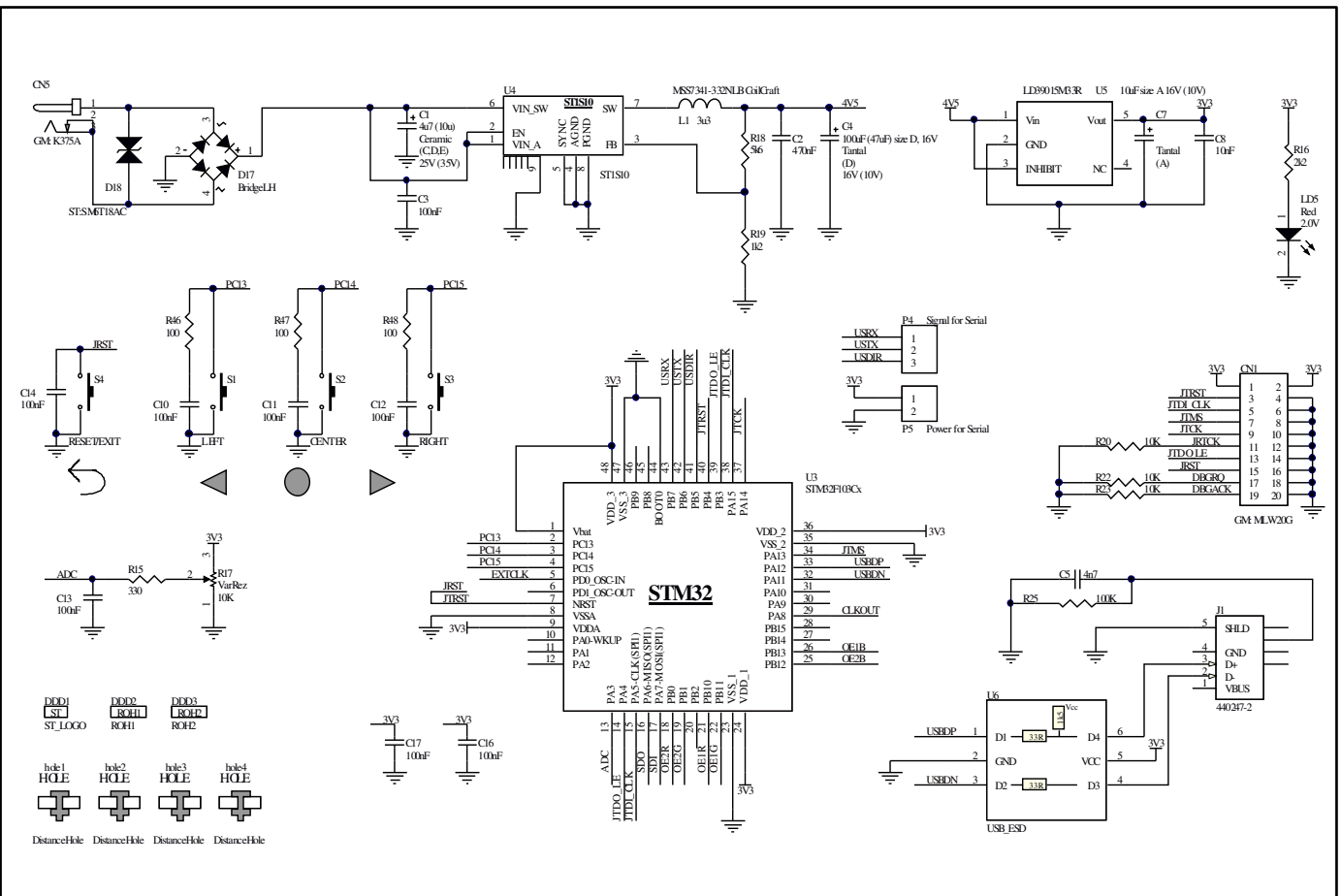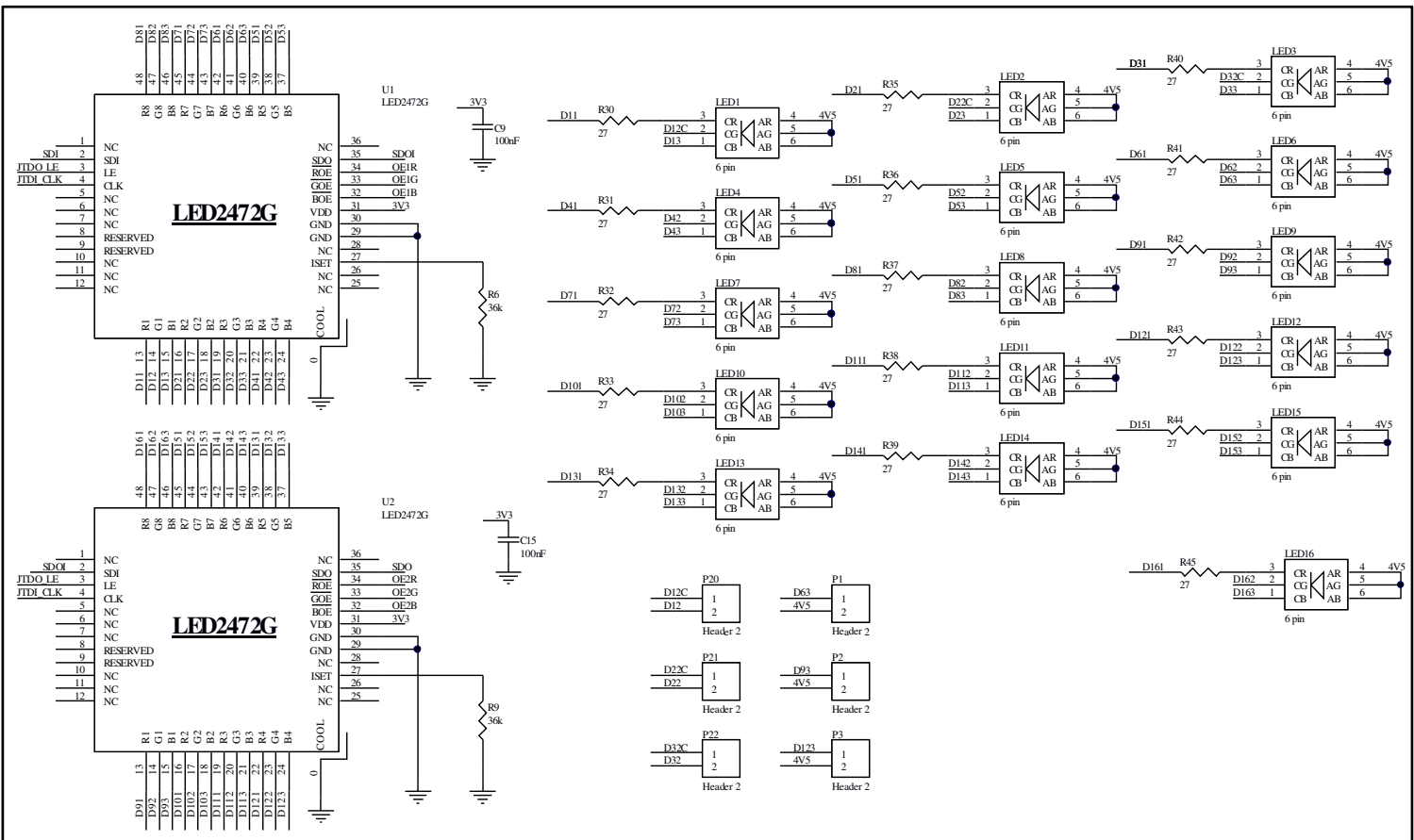
Figure 2: STEVAL-ILL015V2 schematic DACs with LEDs

Board schematics

2 Revision history

Table 1: Document revision history

Date	Revision	Changes
09-Apr-2014	1	Initial release.

Please Read Carefully