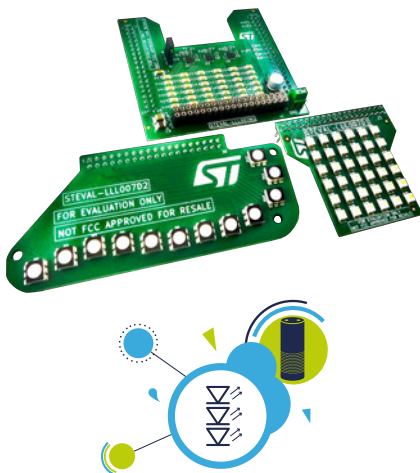


Evaluation kit for the LED1202 12-channel low quiescent current LED driver



Features

- 3x LED1202 12-channel low quiescent current LED drivers embedded on main board
- Can immediately drive 36 white LEDs available on main board, to help you get started
- Includes additional panel boards to let you expand your development:
 - 1 with 36 white LEDs
 - 1 with 12 RGB LEDs
- Designed for use with NUCLEO-L073RZ development platform running the STSW-LLL007FW firmware.
- E5V connector to supply STM32 Nucleo board and additional panels
- Supplied with a range of default patterns
- GUI for advanced driver configuration and customized pattern generation
- CE Certified
- RoHS and China RoHS compliant
- WEEE compliant (2012/19/UE RAEE II)

Description

The STEVAL-LLL007V1 kit consists of the STEVAL-LLL007M1 main board and the STEVAL-LLL007D1 and STEVAL-LLL007D2 panel boards.

To help you evaluate all the features of the [LED1202](#) driver, you can connect the main board to a NUCLEO-L073RZ development platform running the STSW-LLL007FW firmware, which comes with pre-configured random and wave patterns for use in standalone mode.

You can even develop your own pattern sequences by connecting the Nucleo platform to a PC running a dedicated GUI program, which also gives you access to all the LED driver settings.

To achieve the maximum luminosity, you need to supply the STEVAL-LLL007D1 panel board and the STEVAL-LLL007D2 panel board with an external power source via the J13 connector on the STEVAL-LLL007M1 board.

Product summary	
12-channel low quiescent current LED driver	LED1202
Main board with LED1202 driver and 36 white LEDs	STEVAL-LLL007M1 (not available separately)
Panel board with 36 white LEDs	STEVAL-LLL007D1 (not available separately)
Panel board with 12 RGB LEDs	STEVAL-LLL007D2 (not available separately)

1 Block diagrams

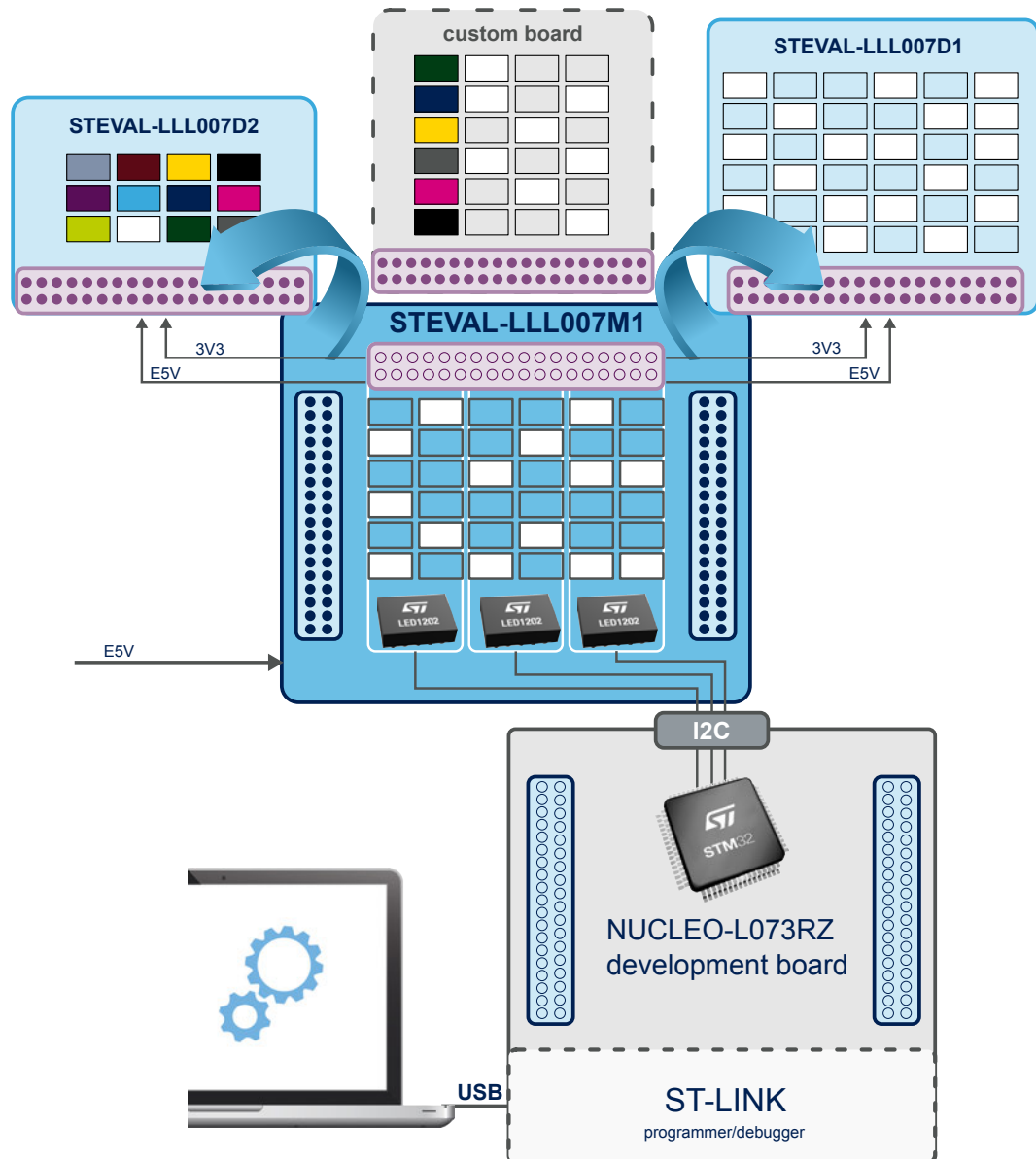
Figure 1. STEVAL-LLL007V1 block diagram

Kit consists of:

- STEVAL-LLL007M1 main board
- STEVAL-LLL007D1 panel board with 36 white LEDs
- STEVAL-LLL007D2 panel board with 12 RGB LEDs

The STEVAL-LLL007V1 can be connected to an STM32 Nucleo board for programming and debugging purposes

You can connect your own custom LED board through the same connector used to connect the panel boards with the main board



2 Schematic diagrams

Figure 2. STEVAL-LLL007M1 circuit schematic

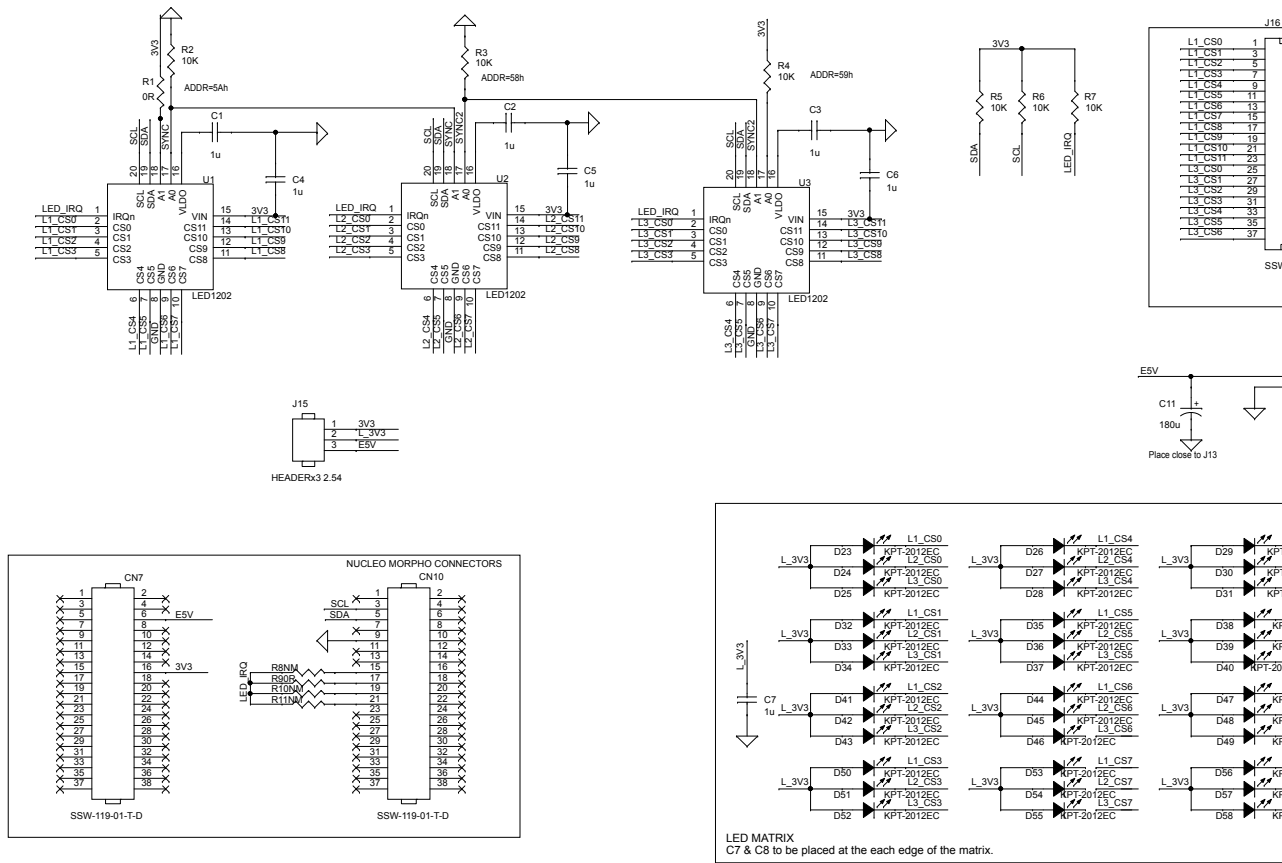
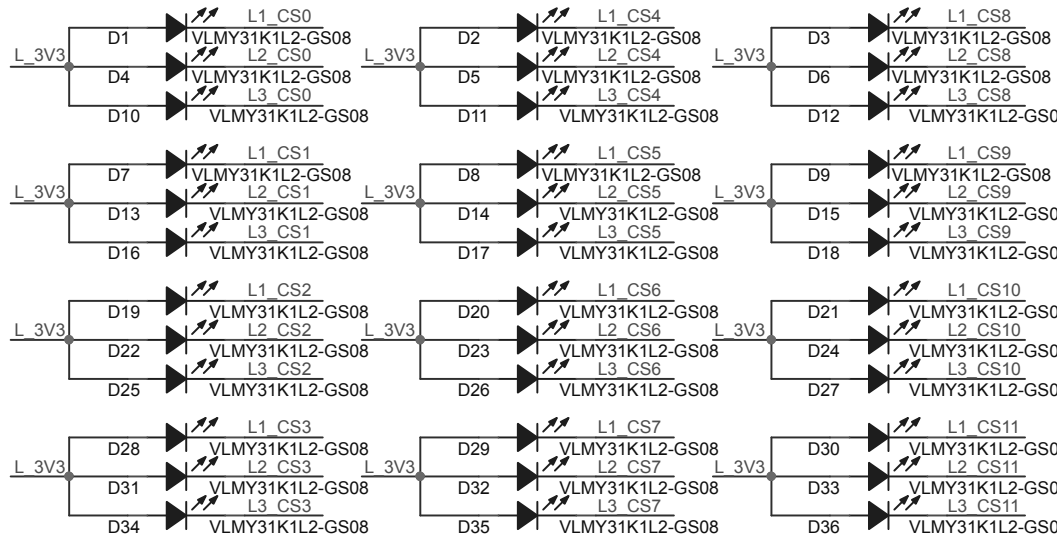


Figure 3. STEVAL-LLL007D1 circuit schematic

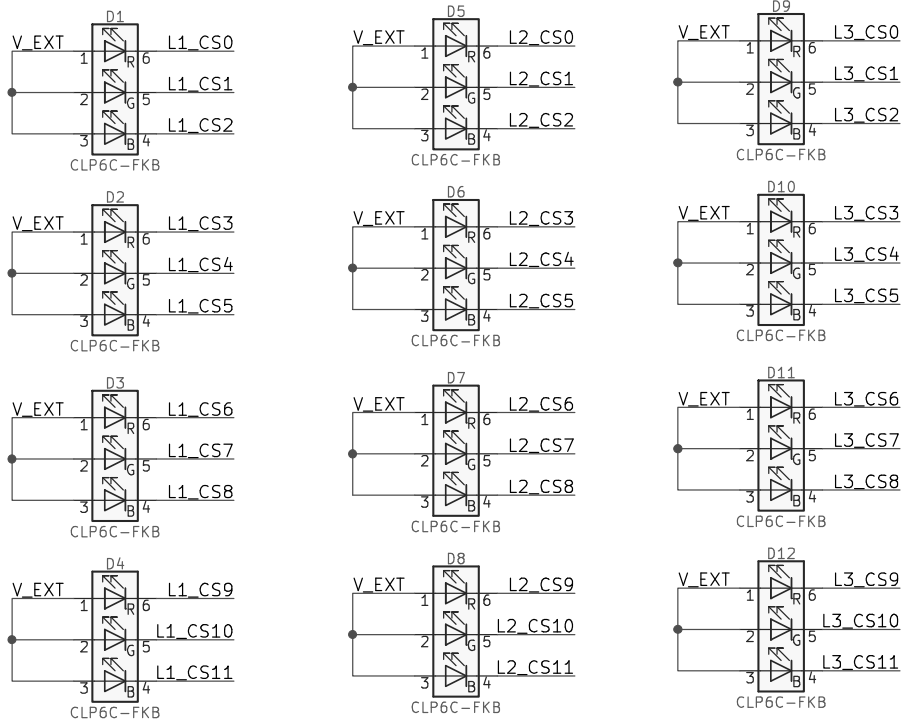


J1

L1 CS0	1	2	L 3V3
L1 CS1	3	4	
L1 CS2	5	6	L3 CS11
L1 CS3	7	8	L3 CS10
L1 CS4	9	10	L3 CS9
L1 CS5	11	12	L3 CS8
L1 CS6	13	14	L3 CS7
L1 CS7	15	16	L3 CS6
L1 CS8	17	18	L3 CS5
L1 CS9	19	20	L3 CS4
L1 CS10	21	22	L3 CS3
L1 CS11	23	24	L3 CS2
L2 CS0	25	26	L3 CS1
L2 CS1	27	28	L3 CS0
L2 CS2	29	30	L2 CS11
L2 CS3	31	32	L2 CS10
L2 CS4	33	34	L2 CS9
L2 CS5	35	36	L2 CS8
L2 CS6	37	38	L2 CS7

header 2 rows - pitch 2.54

Figure 4. STEVAL-LLL007D2 circuit schematic



L1
L1
L1
L1
L1
L1
L1
L1
L1
L2
L2
L2
L2
L2

Revision history

Table 1. Document revision history

Date	Version	Changes
07-Mar-2019	1	Initial release.

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