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TFT LCD panel controller evaluation board based on STM3220F-EVAL

Data brief



- Real-time camera image streaming to showcase the driver performance
- On-board constant current drive circuit for LED based TFT-LCD backlight
- Static image display with refresh rate of 60 frames per second
- RoHS compliant

Description

The purpose of the STEVAL-CCM004V2 evaluation board is to demonstrate the STM32F2x capabilities of the high performance Flexible Static Memory Controller (FSMC) interface to drive a TFT LCD.

A 3.5" QVGA resolution TFT-LCD panel is interfaced with the STM32 FSMC peripheral.

The STEVAL-CCM004V2 board is designed to be interfaced as daughter board for the STM320G-EVAL kit.

Features

- Direct RGB signal driving using STM32 without additional on-chip controller
- STM3220G-EVAL based plug-in daughter board for feature extensibility
- Ready-to-use graphic library APIs for easy GUI design

1 Schematic diagrams

Figure 1: LCD section

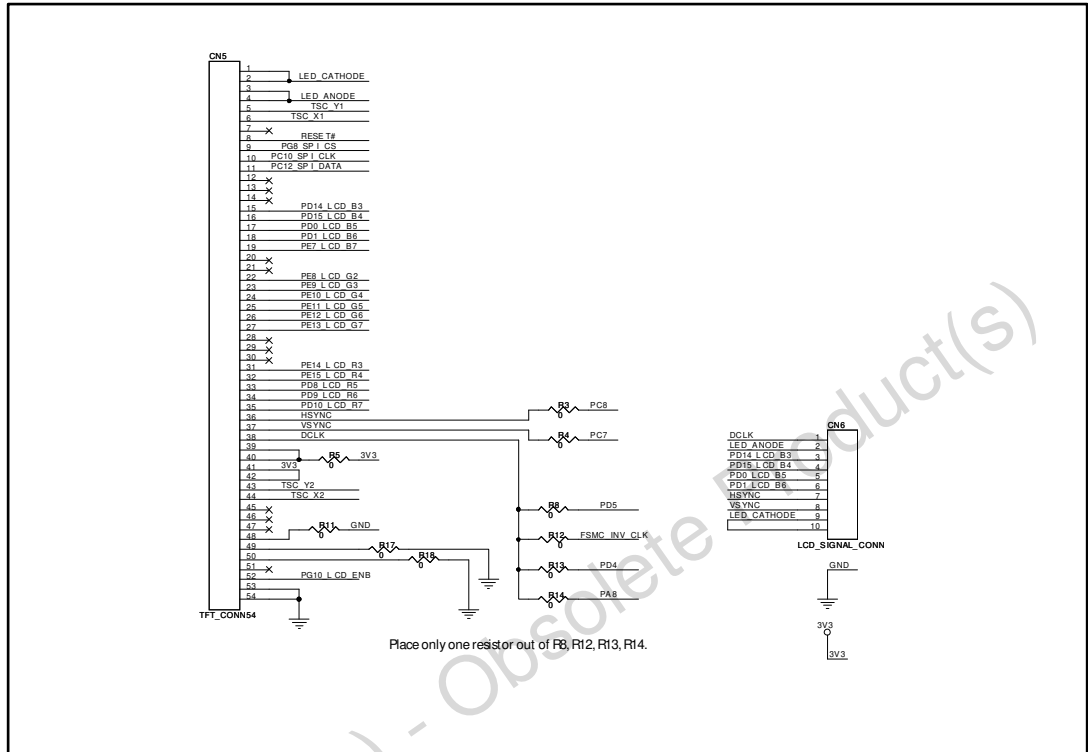


Figure 2: Single channel inverter

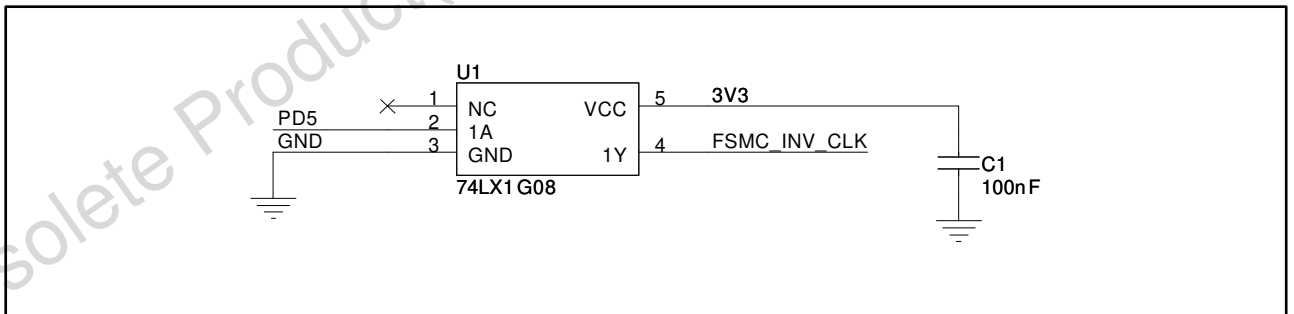


Figure 3: Touchscreen controller

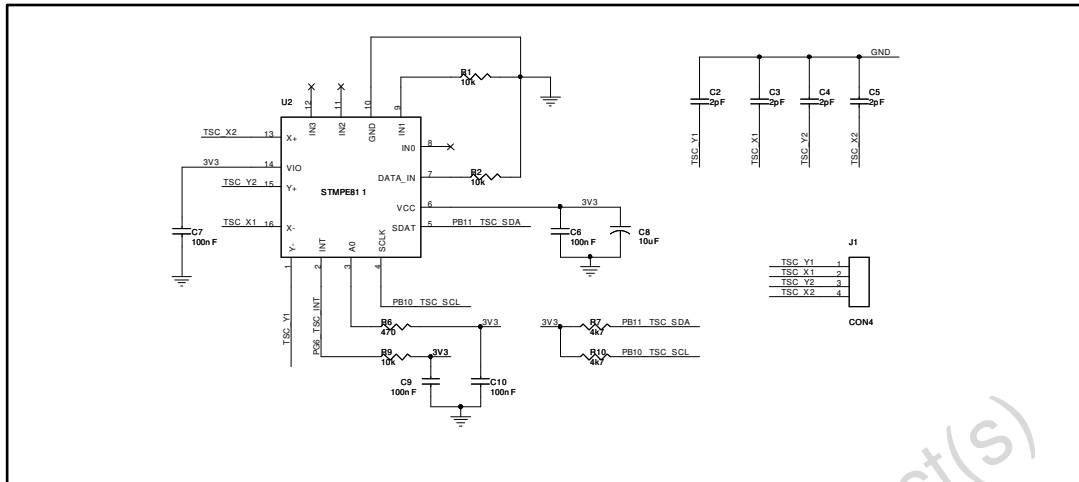


Figure 4: EVAL board connector section

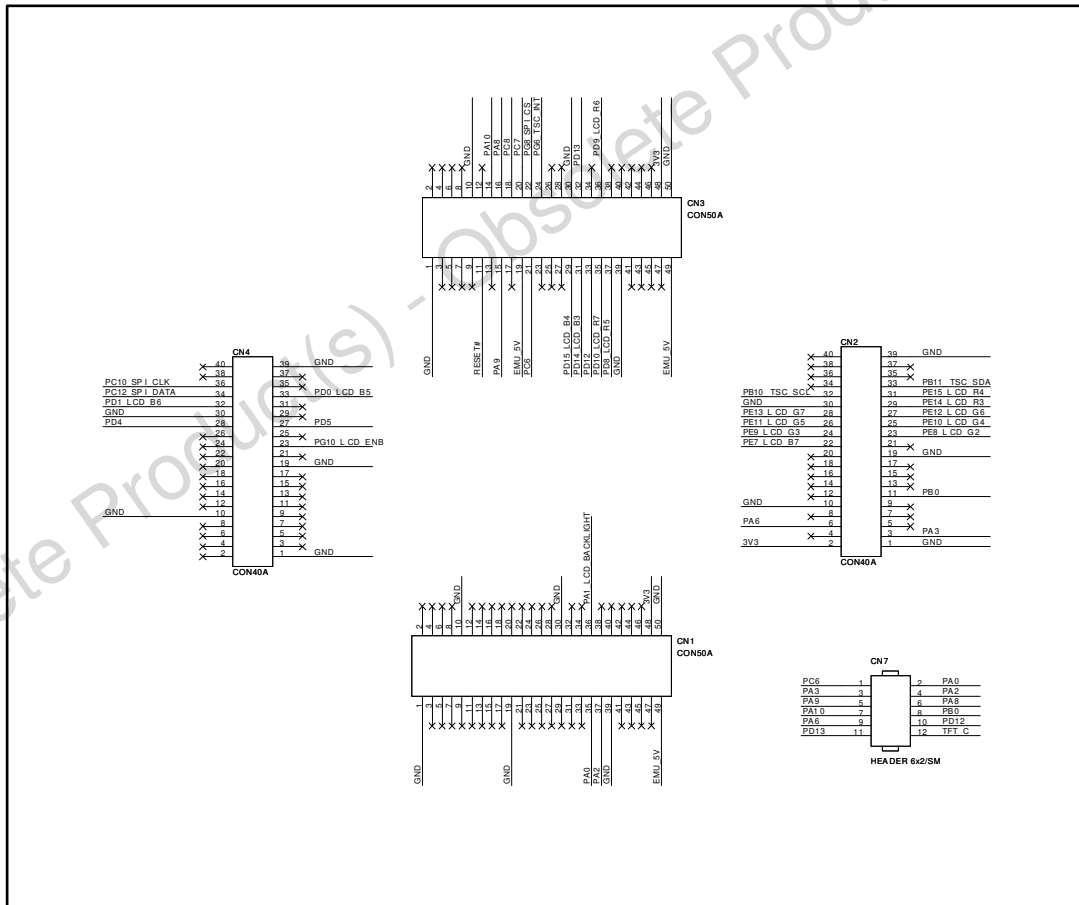
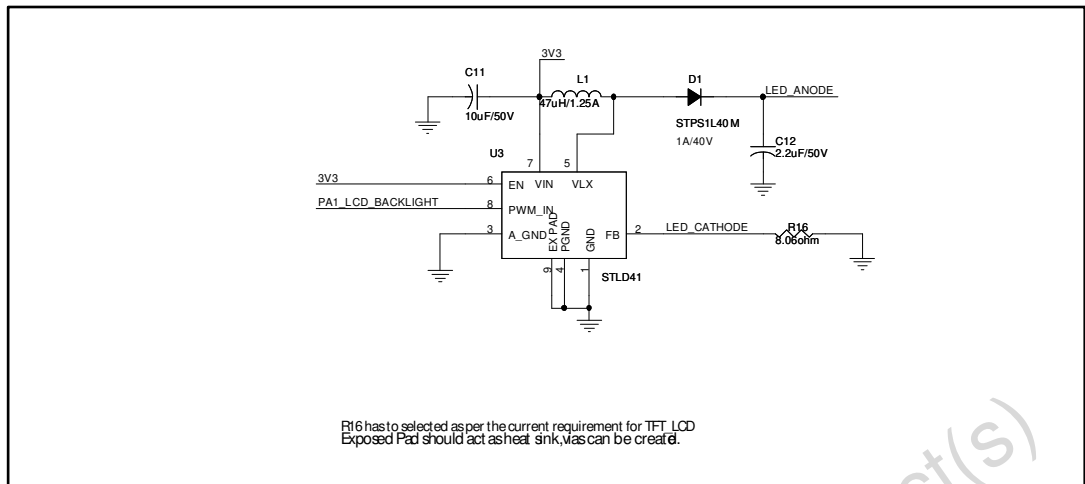


Figure 5: LCD backlight driver



2 Revision history

Table 1: Document revision history

| Date | Revision | Changes |
|-------------|----------|---------------|
| 16-Dec-2013 | 1 | First release |

Obsolete Product(s) - Obsolete Product(s)

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