
TFT LCD panel controller evaluation board based on STM3220F-EVAL

Data brief



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
- 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.

Figure 1: LCD section

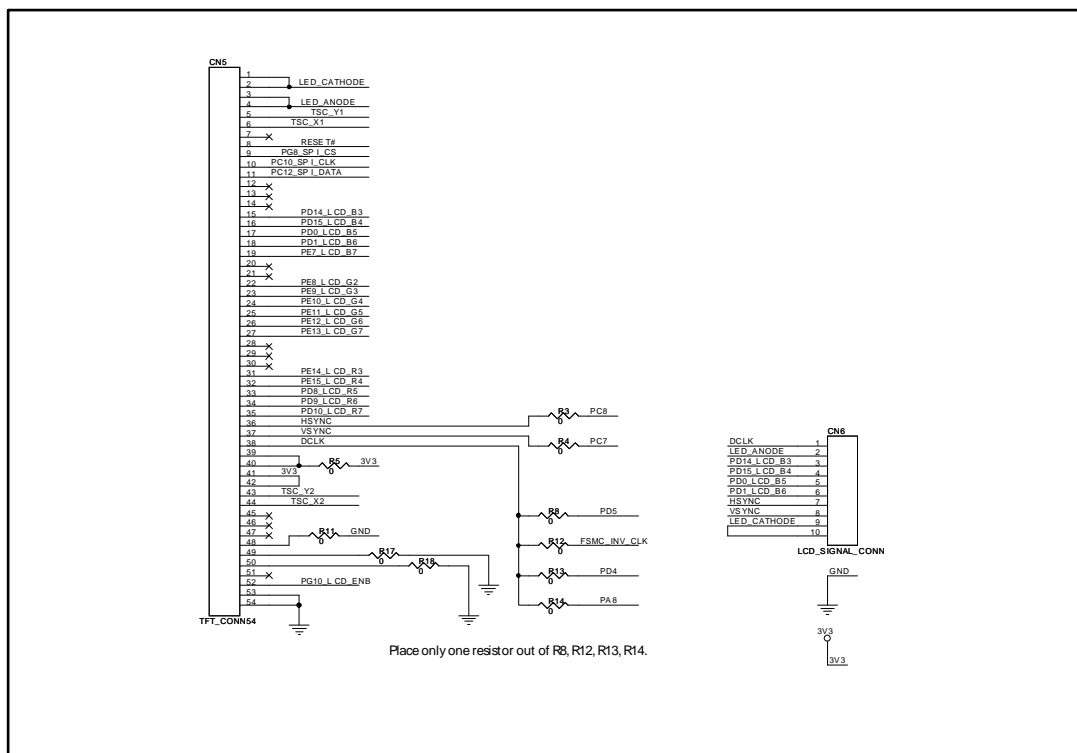


Figure 2: Single channel inverter

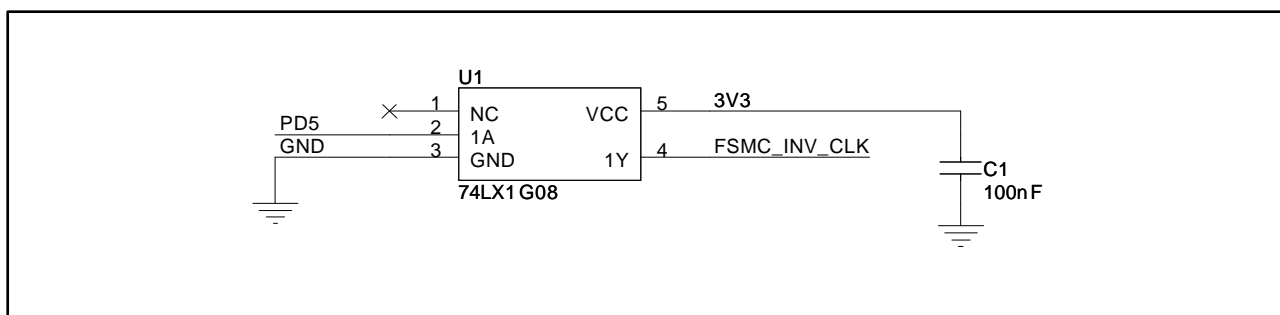


Figure 3: Touchscreen controller

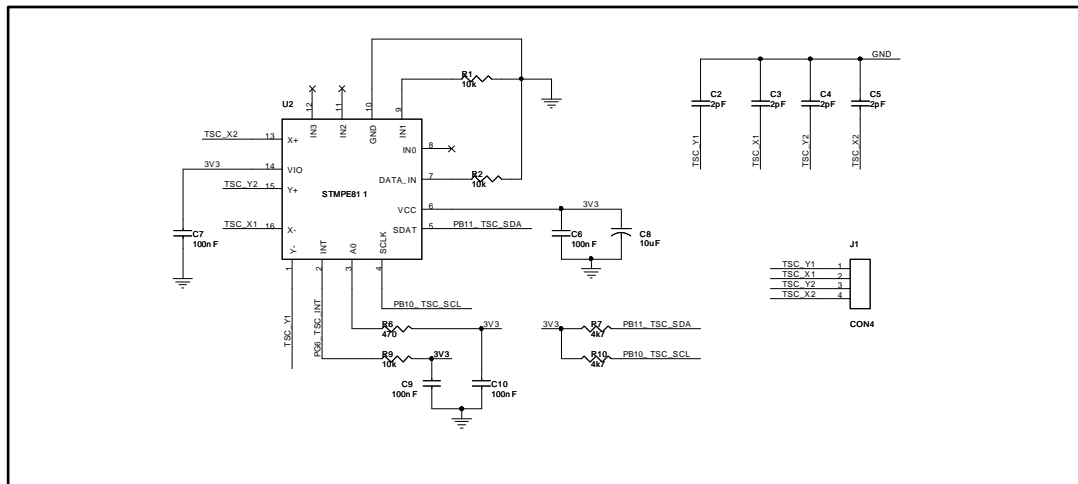


Figure 4: EVAL board connector section

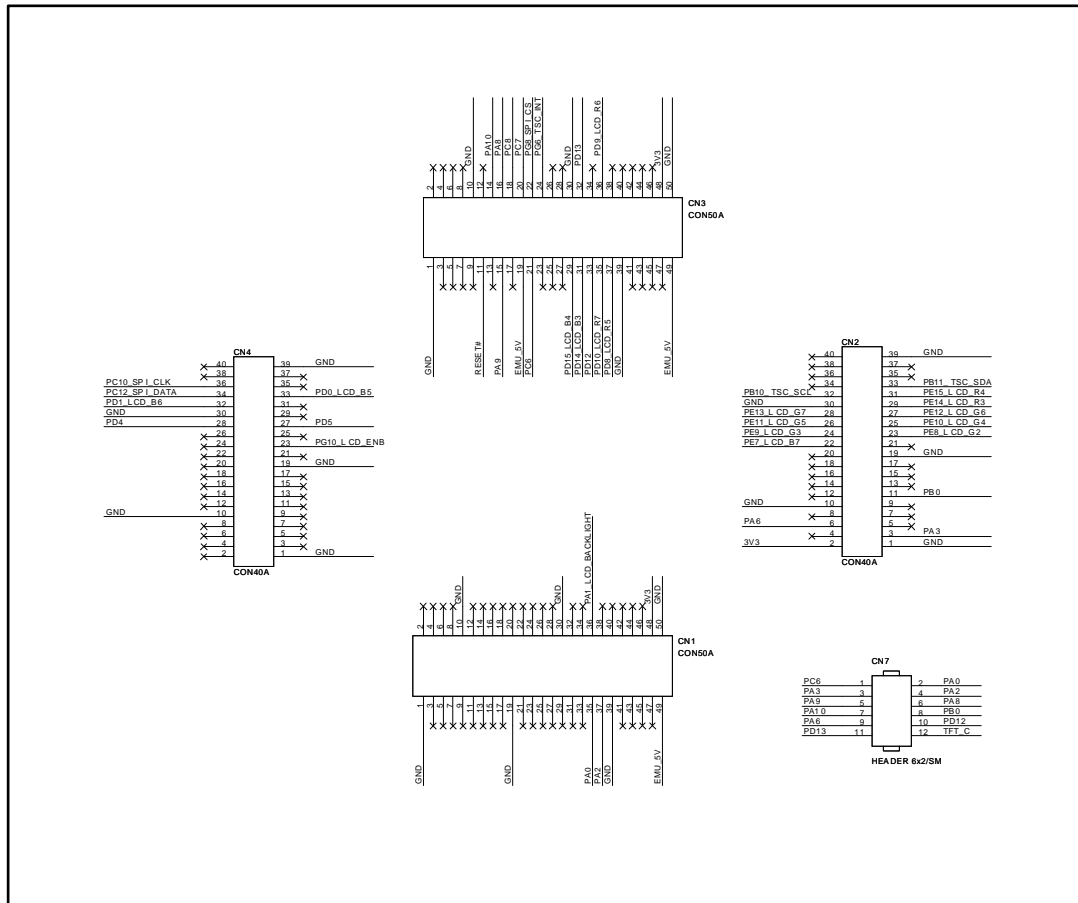
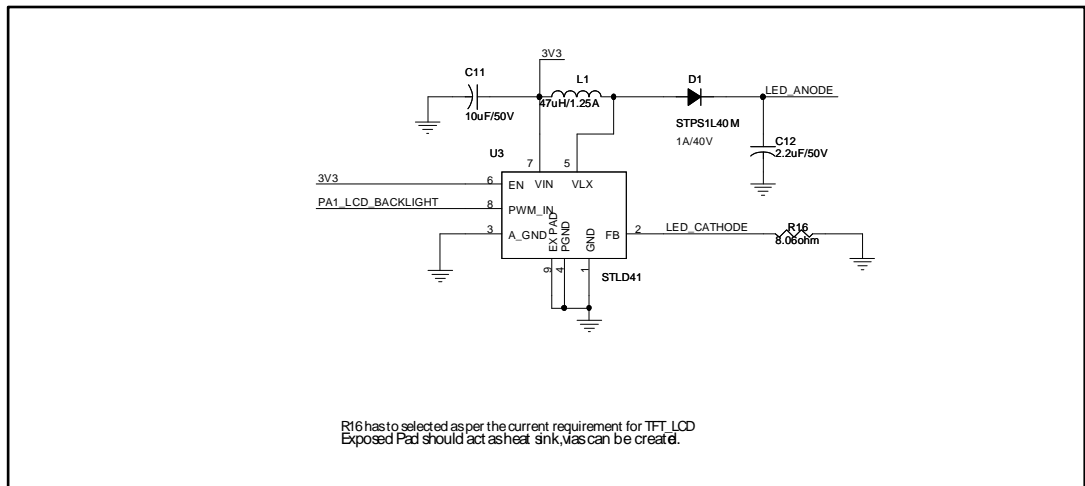


Figure 5: LCD backlight driver



2 Revision history

Table 1: Document revision history

Date	Revision	Changes
16-Dec-2013	1	First release

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QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com