

### STEVAL-CCM004V2

# TFT LCD panel controller evaluation board based on STM3220F-EVAL

Data brief



#### **Features**

)bsolete

- 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.

Schematic diagrams STEVAL-CCM004V2

# 1 Schematic diagrams

Figure 1: LCD section

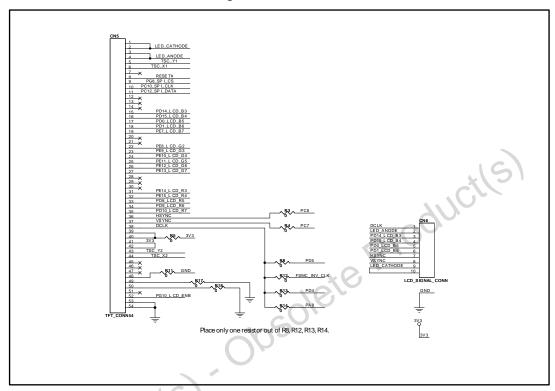
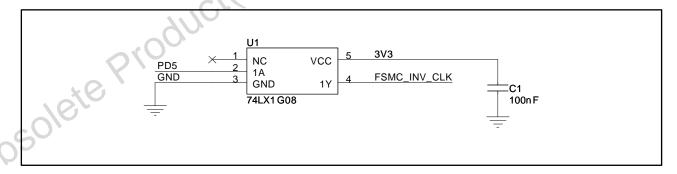


Figure 2: Single channel inverter



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Figure 3: Touchscreen controller

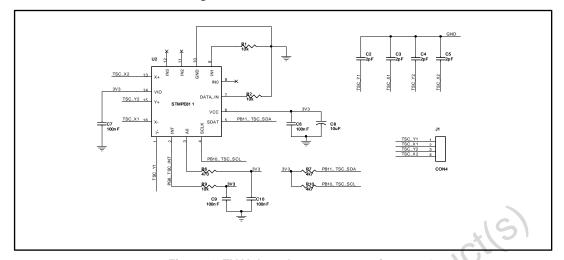
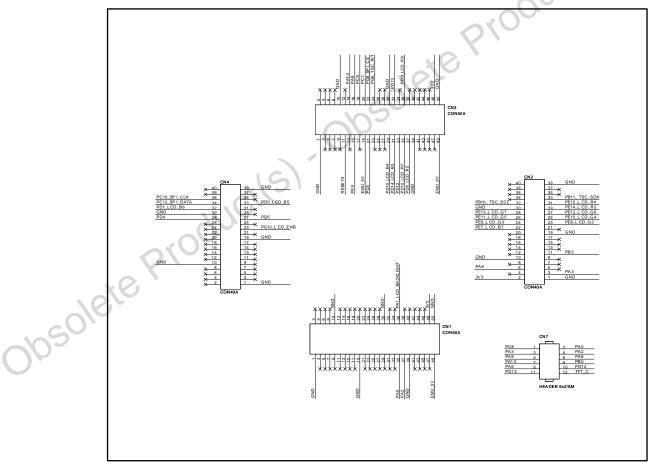
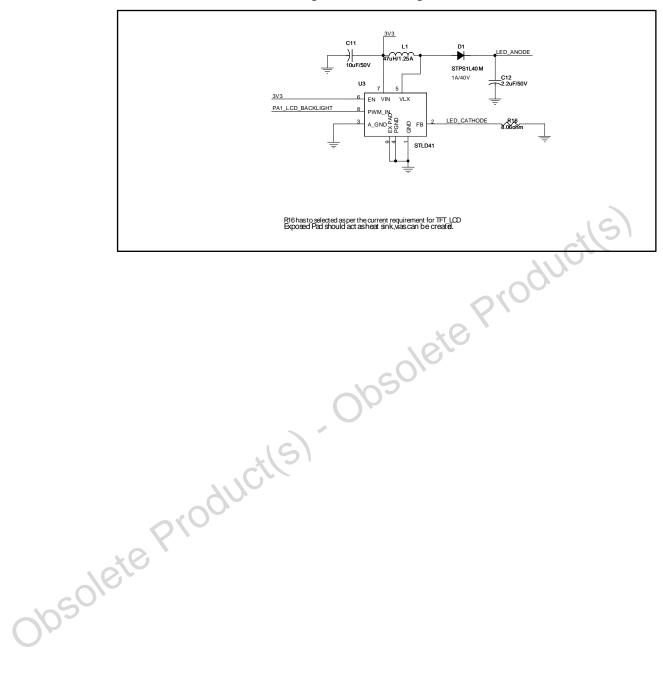


Figure 4: EVAL board connector section



Schematic diagrams STEVAL-CCM004V2

Figure 5: LCD backlight driver



STEVAL-CCM004V2 Revision history

## 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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