



STEVAL-CCM002V1

TFT-LCD panel demonstration board
based on the STM32 as LCD controller

Data brief

Features

- Displays images on a TFT-LCD using the STM32 as LCD controller
- Includes a slideshow of images to demonstrate static display model
- STM32 FSMC (flexible static memory interface) drives TFT using external SRAM as refresh RAM
- On-board constant current drive circuit for LED-based TFT-LCD backlighting
- Dimming control for the TFT-LCD backlighting
- Jumper headers offer easy analysis of TFT-LCD interface to the microcontroller
- RoHS compliant



Description

The STEVAL-CCM002V1 demonstration board is an STM32-based LCD controller for TFT-LCD displays. The board provides a platform for testing the capabilities of the STM32F103VET6 FSMC peripheral to drive a TFT-LCD panel without an LCD controller.

A 3.5" QVGA resolution TFT-LCD panel is interfaced with the STM32 FSMC peripheral. The board is designed to be connected as a daughterboard to the STM3210E-EVAL demonstration kit.

1 Schematic diagrams

Figure 1. LED section

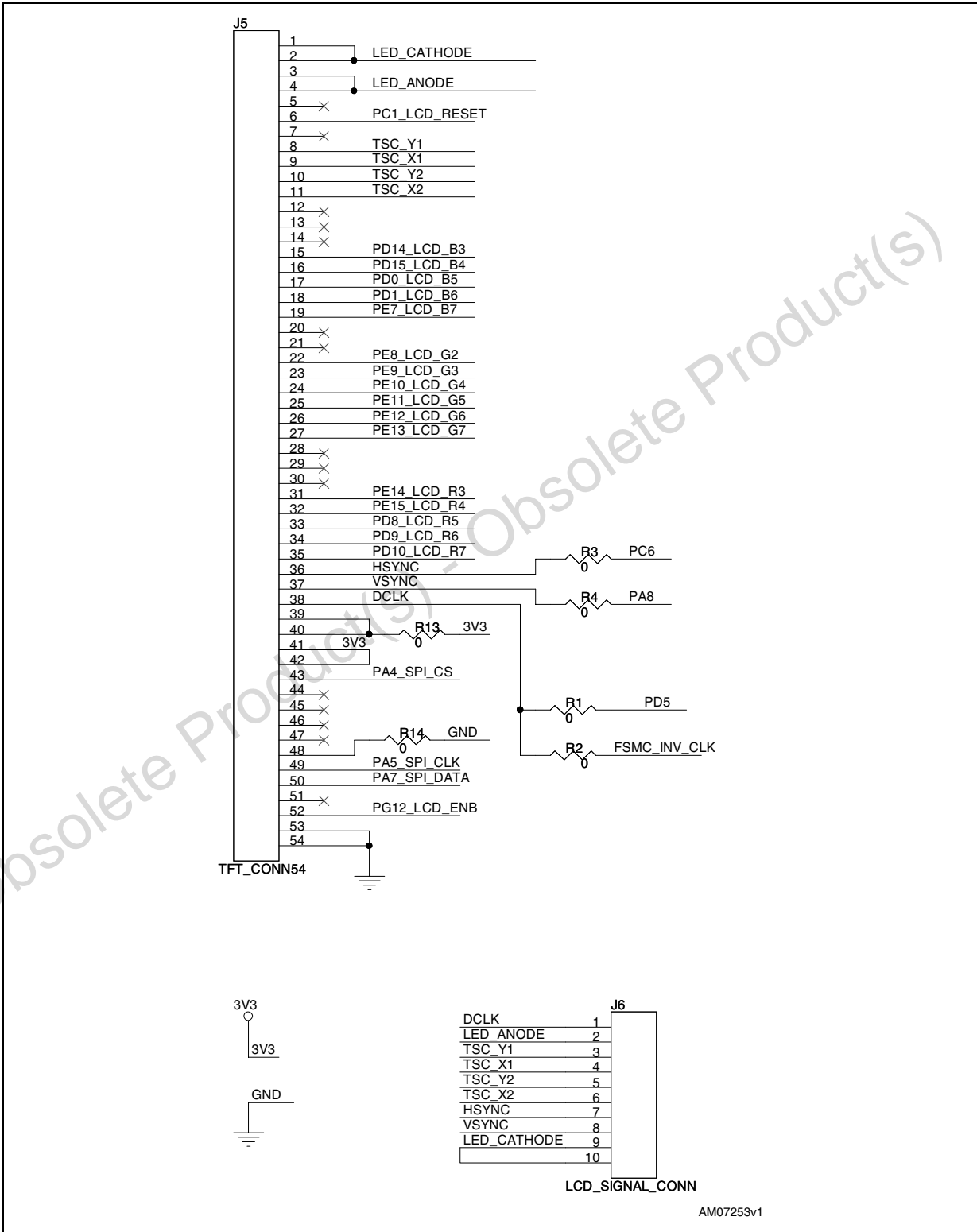


Figure 2. Demonstration board connectors

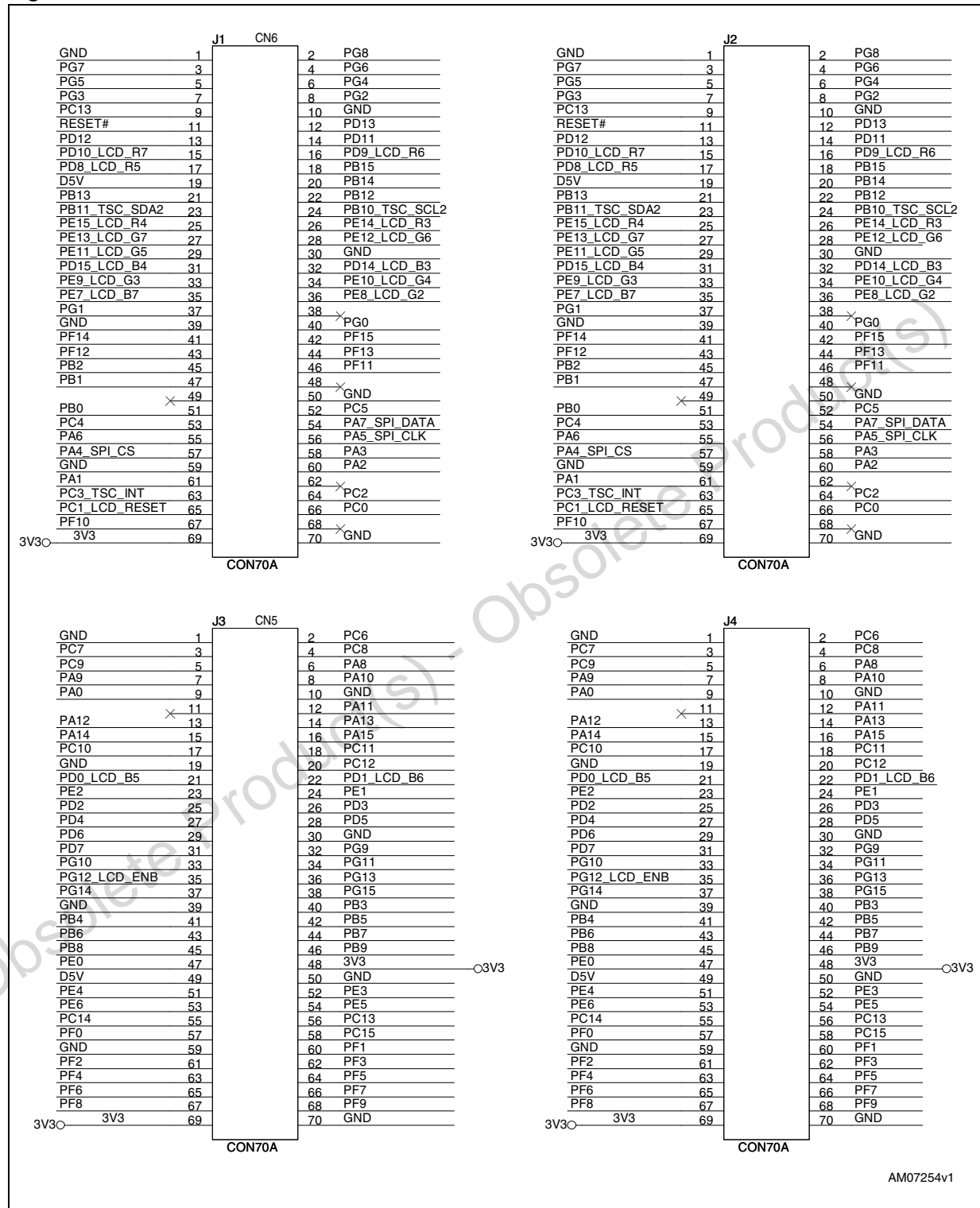
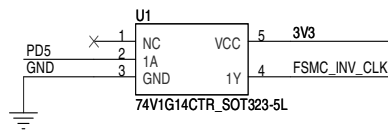
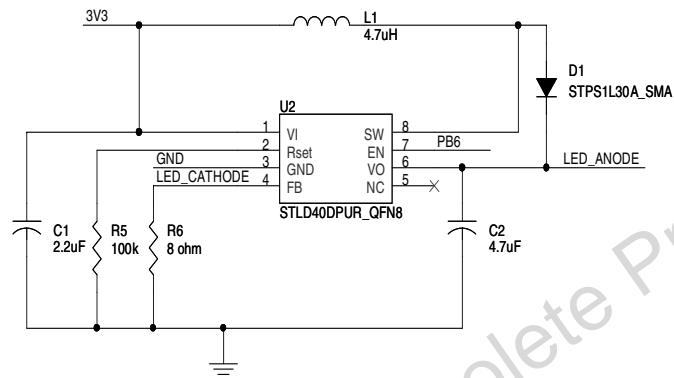


Figure 3. Single channel inverter, LCD backlight driver and touchscreen controller

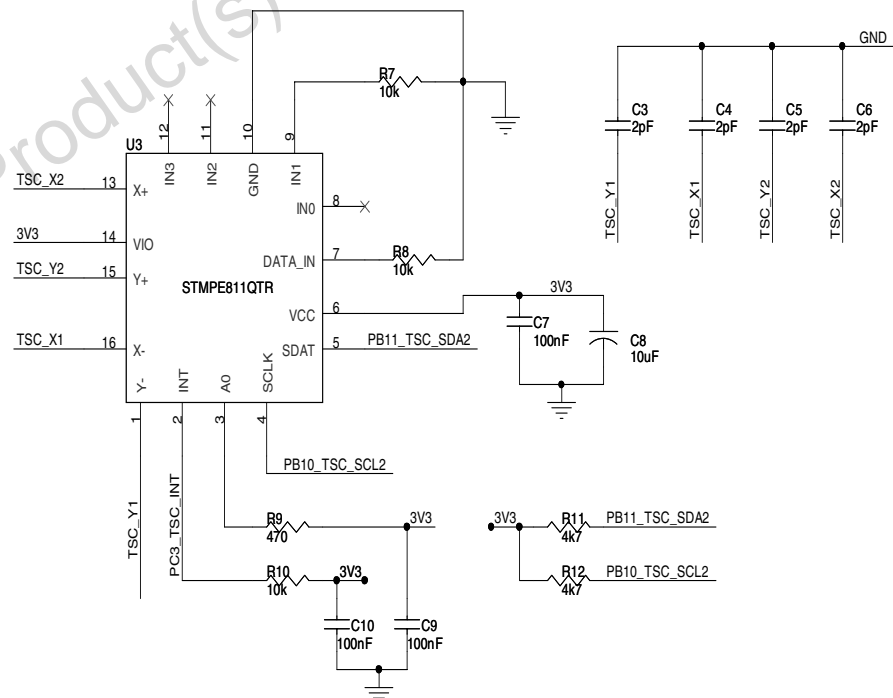
Single channel inverter



LCD backlight driver



Touchscreen controller



AM07255v1

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
16-Jun-2010	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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