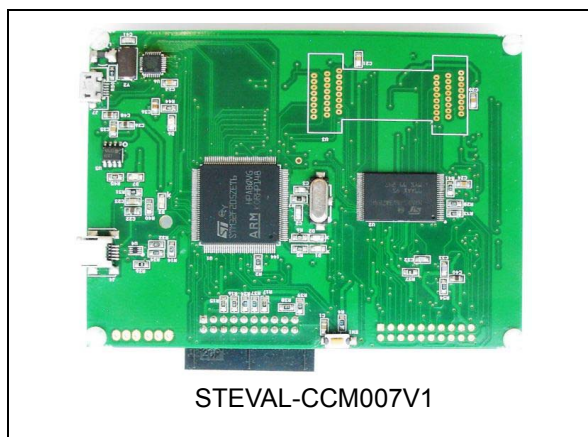


STM32-based NAND Flash driver demonstration board (without TFT)

Data brief



Description

The STEVAL-CCM007V1 is a demonstration board for a NAND Flash driver based on the STM32F205ZET6 microcontroller.

It supports 512 byte and 2 kilobyte page SLC NAND Flash, and dynamic detection of NAND Flash based on "Device ID".

The firmware automatically detects which NAND Flash is mounted on the PCB, and function accordingly.

Features

- Designed for 512 byte and 2 kilobyte page size NAND Flash interfacing using the FSMC interface of the STM32
- Supports both the FAT (ELM_FS) file system and USB mass storage device mode
- Supports garbage collection, wear leveling, bad block management and ECC check
- RoHS compliant

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Figure 1. Microcontroller section circuit schematic



Figure 2. NAND Flash circuit schematic



Figure 3. USB full speed circuit schematic

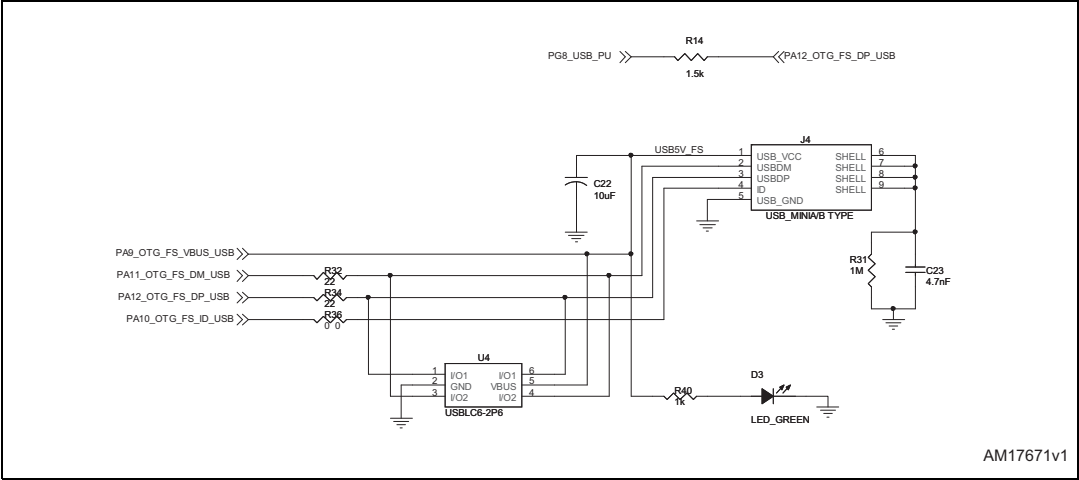


Figure 4. JTAG connector circuit schematic

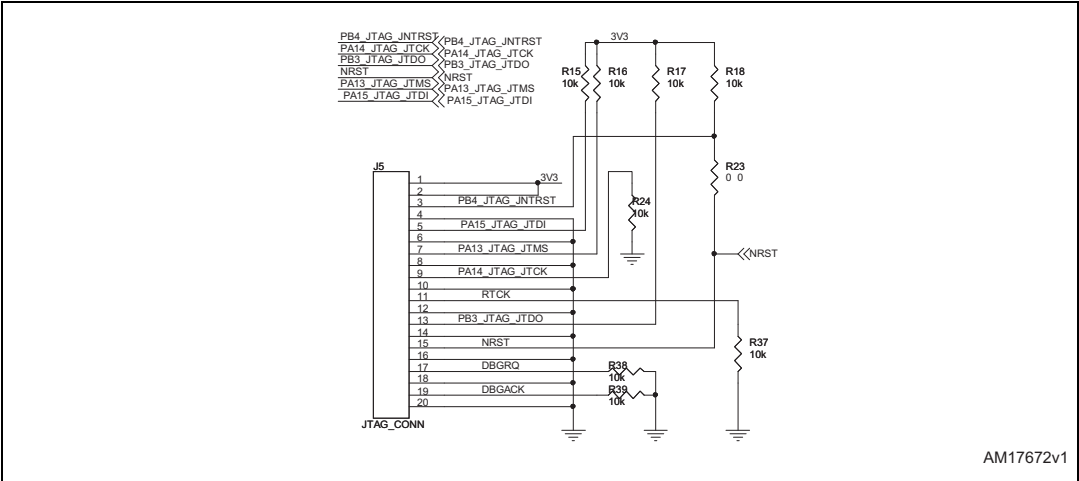


Figure 5. USB high speed circuit schematic

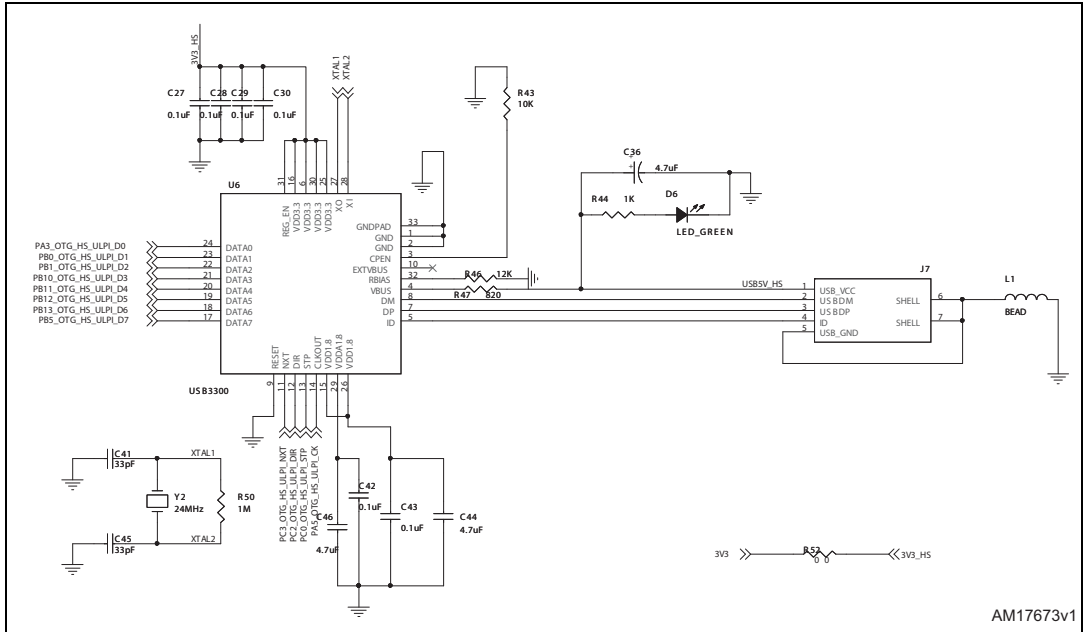


Figure 6. Touch screen controller circuit schematic

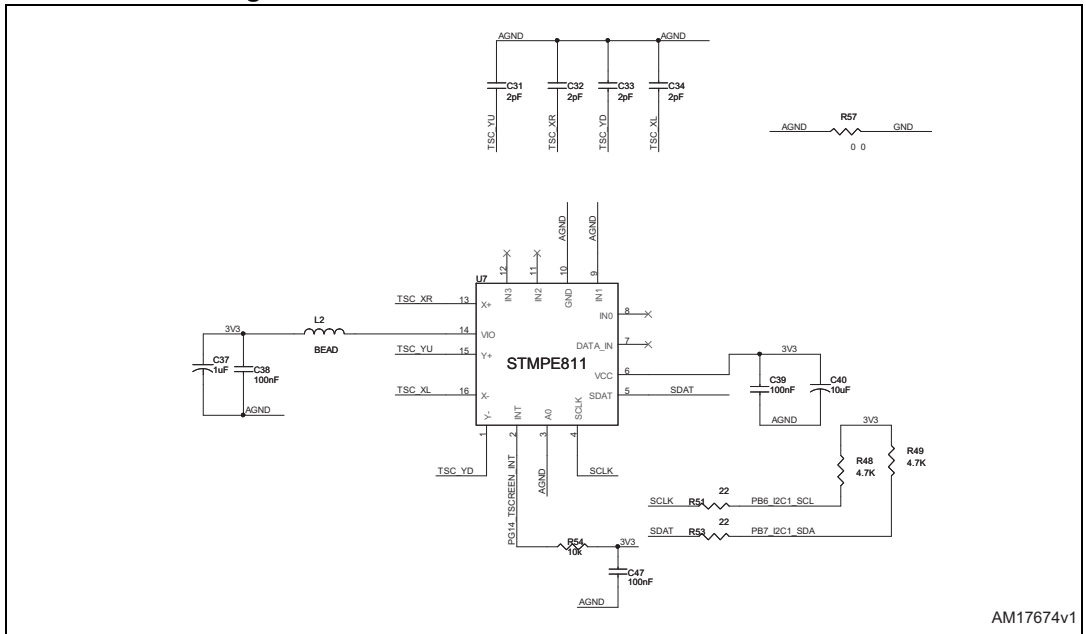


Figure 7. Power section circuit schematic

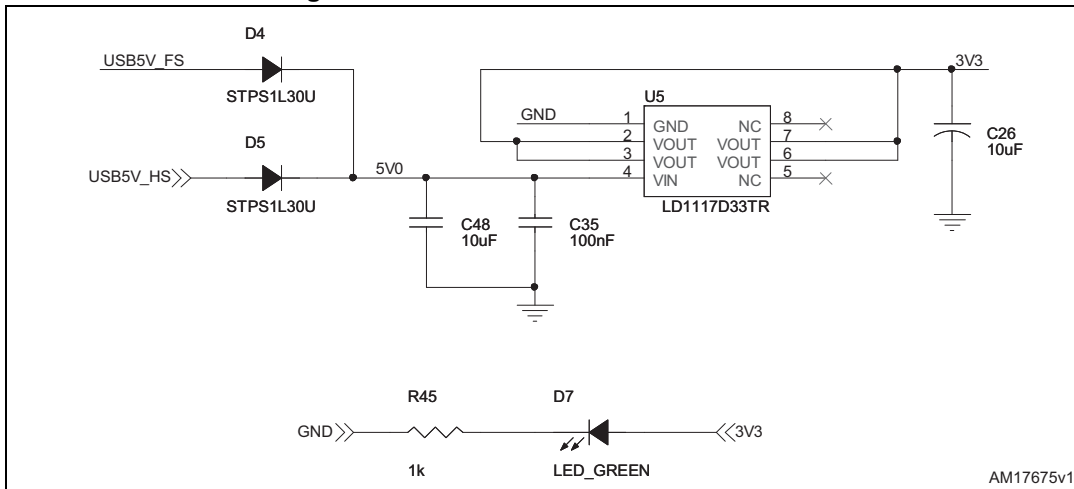


Figure 8. TFT connector circuit schematic

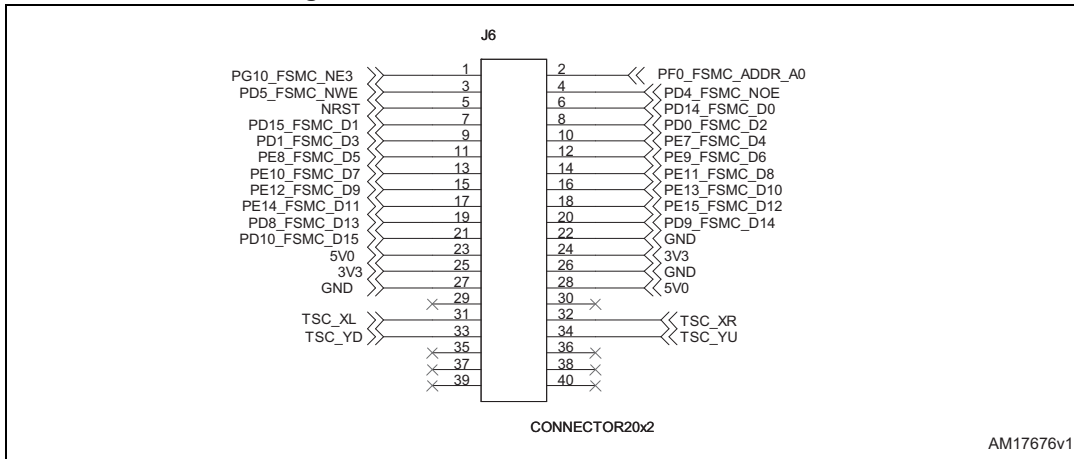
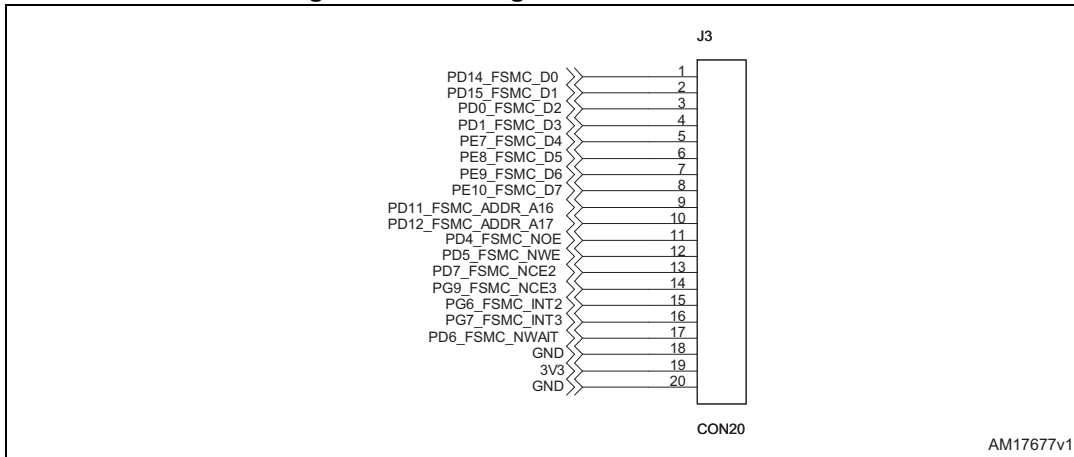


Figure 9. NAND signals circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
30-Sep-2013	1	Initial release.

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