



STEVAL-PCC009V4

Opto-isolated universal USB to serial bridge demonstration board
for motor control applications

Data brief

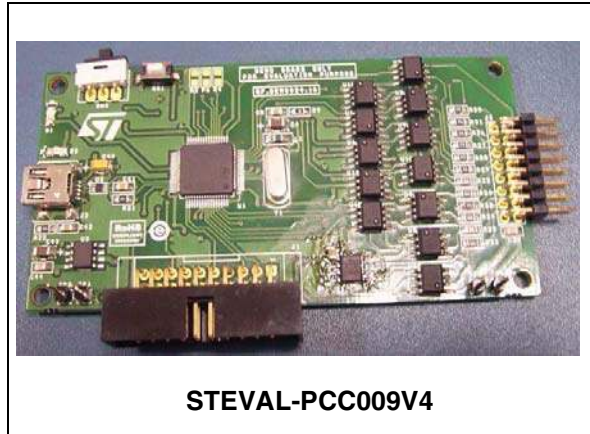
Features

- STM32-based demonstration board used as the interface between the PC and motor control systems
- 8-pin interface for SPI/I²C/UART
- 6 GPIOs available
- Opto-isolation on SPI, USART and GPIOs
- Magnetic isolation for I²C
- RoHS compliant

Description

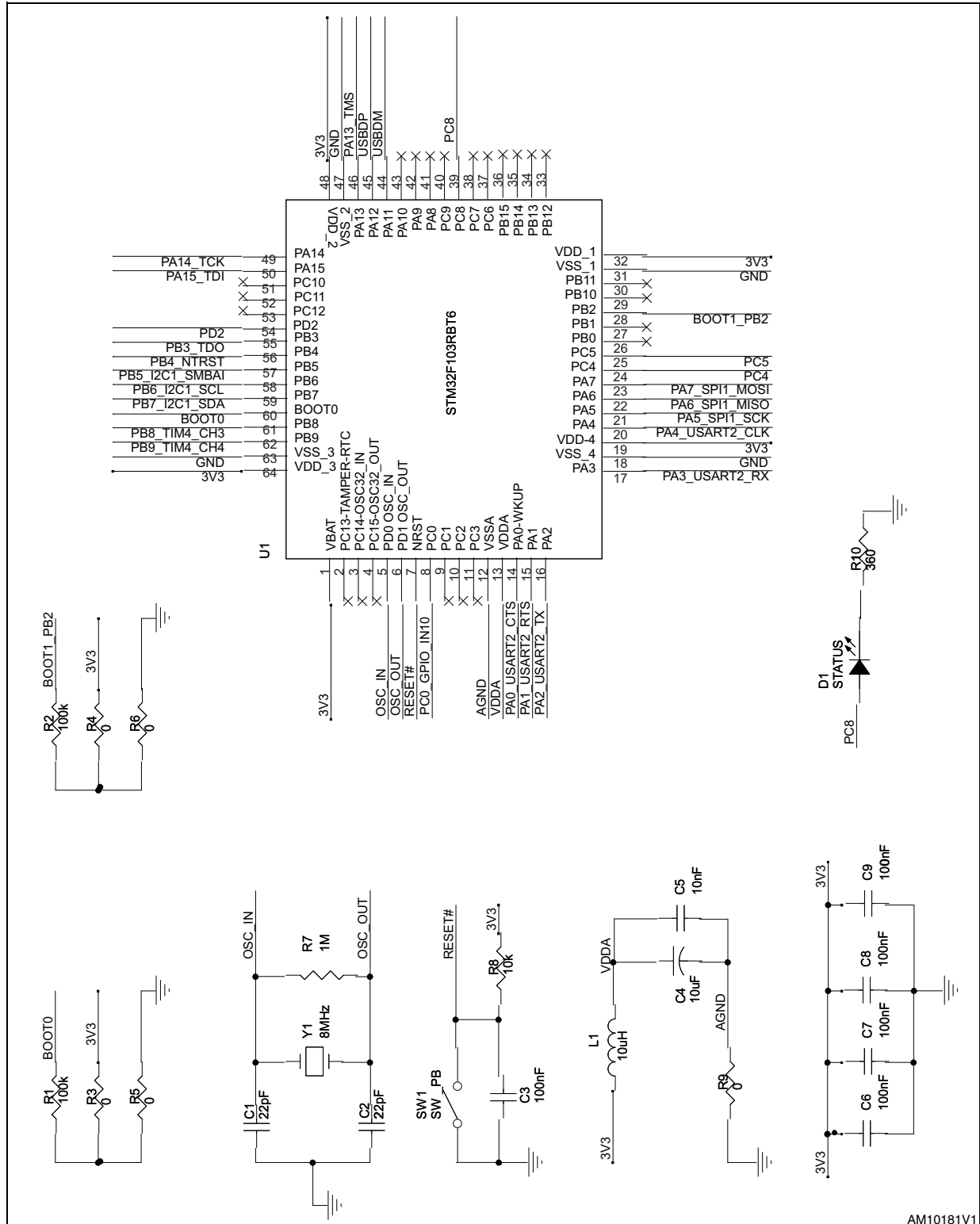
The STEVAL-PCC009V4 demonstration board implements a universal USB on the serial isolated interface communication. It is useful in all applications which need safe connection from PC to the application boards.

The STEVAL-PCC009V4 has a 16-pin communication interface which allows connecting a device that uses I²C, SPI or UART protocols. Thus, the board functions as a bridge between a serial communication based device and a PC.



1 Schematics

Figure 1. Microcontroller section



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Figure 2. JTAG interface

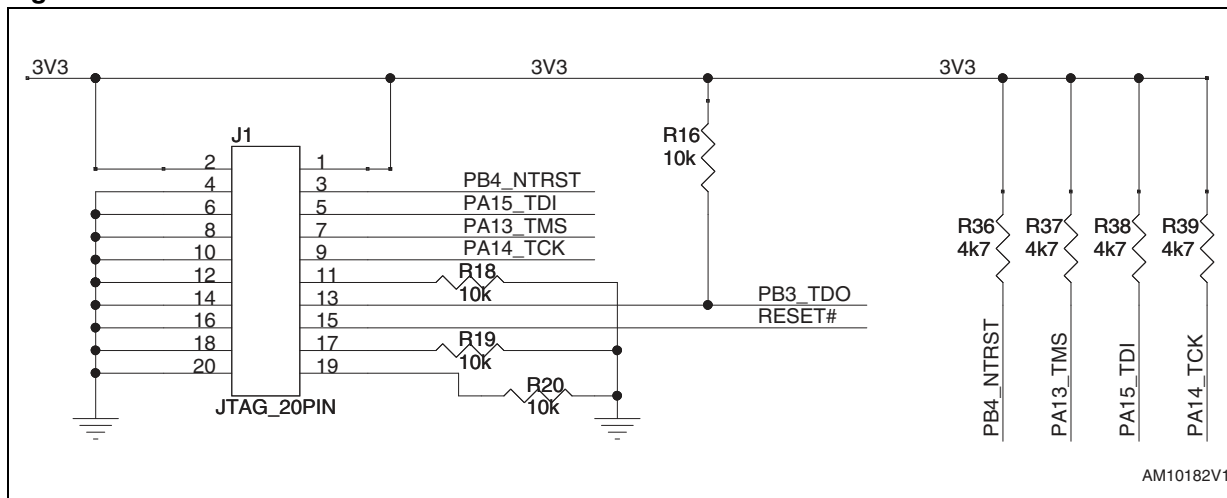


Figure 3. Mode selection switch

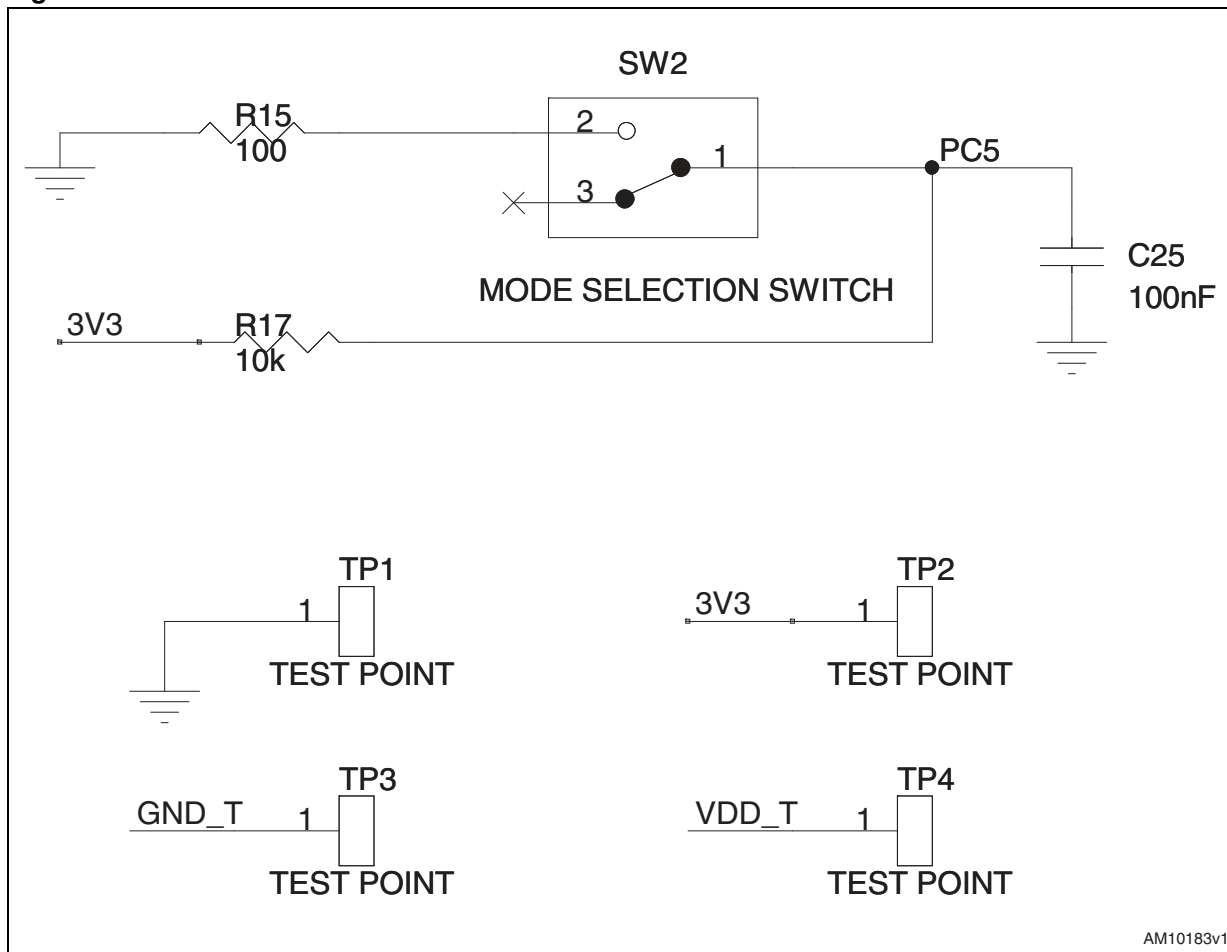
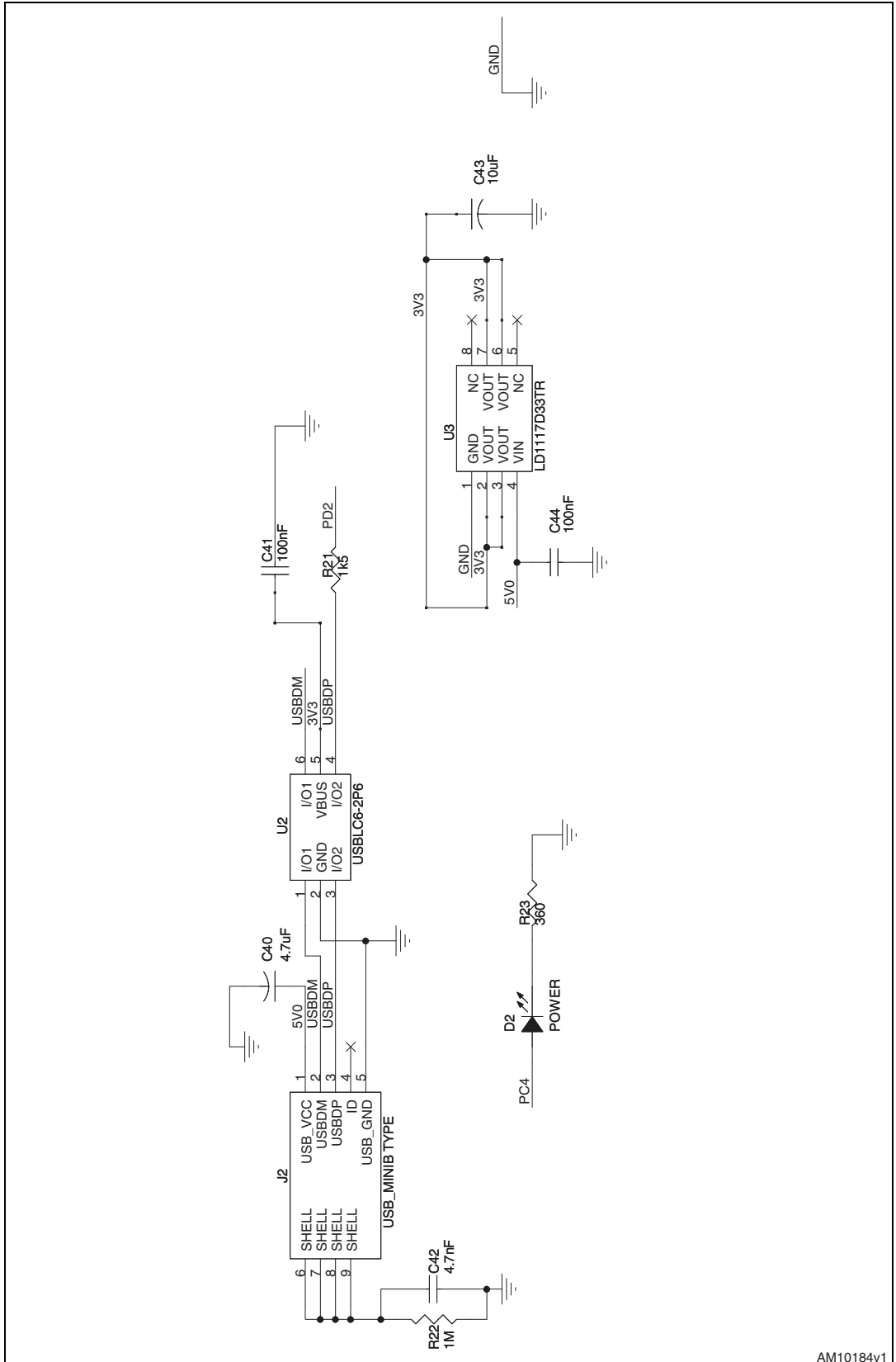
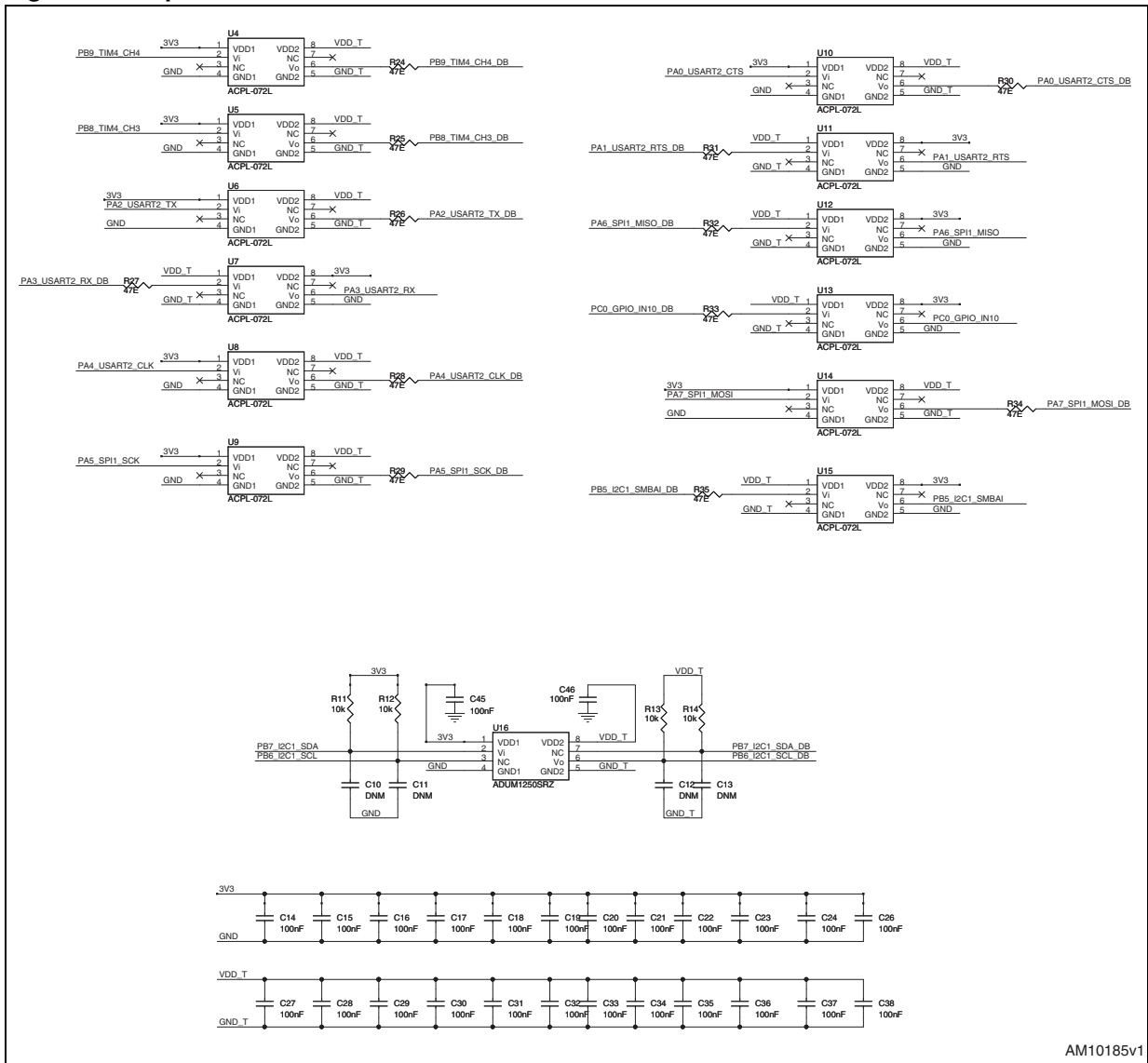


Figure 4. Power supply



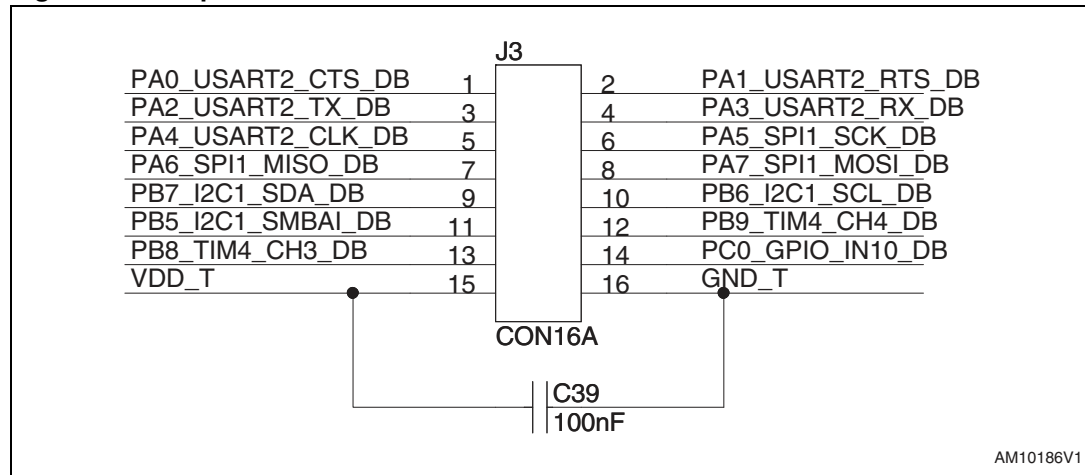
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Figure 5. Opto-isolator section



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Figure 6. 16-pin communication interface



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
04-Oct-2011	1	Initial release.
16-Jul-2012	2	Updated cover page. Minor text changes.

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