

Smart card interface evaluation board based on the ST8034P

Data brief

**Features**

- Smartcard connector for testing with a smartcard
- Labeled testpoints provide accessibility to all the signals
- Board design allows standalone operation for basic tests
- Interface to an MCU block and simple board configurability allow even full functioning in applications (i.e. set-top box)
- Onboard 10 MHz crystal clock oscillator can be used to provide card clock in standalone operation
- Card clock source selection switch allows selection between the onboard crystal oscillator as card clock source, or an external clock source provided by the microcontroller block through the MCU interface together with the data signals
- Provides easy, flexible card supply voltage selection either by onboard configuration switches or remotely by the microcontroller
- RoHS compliant

Description

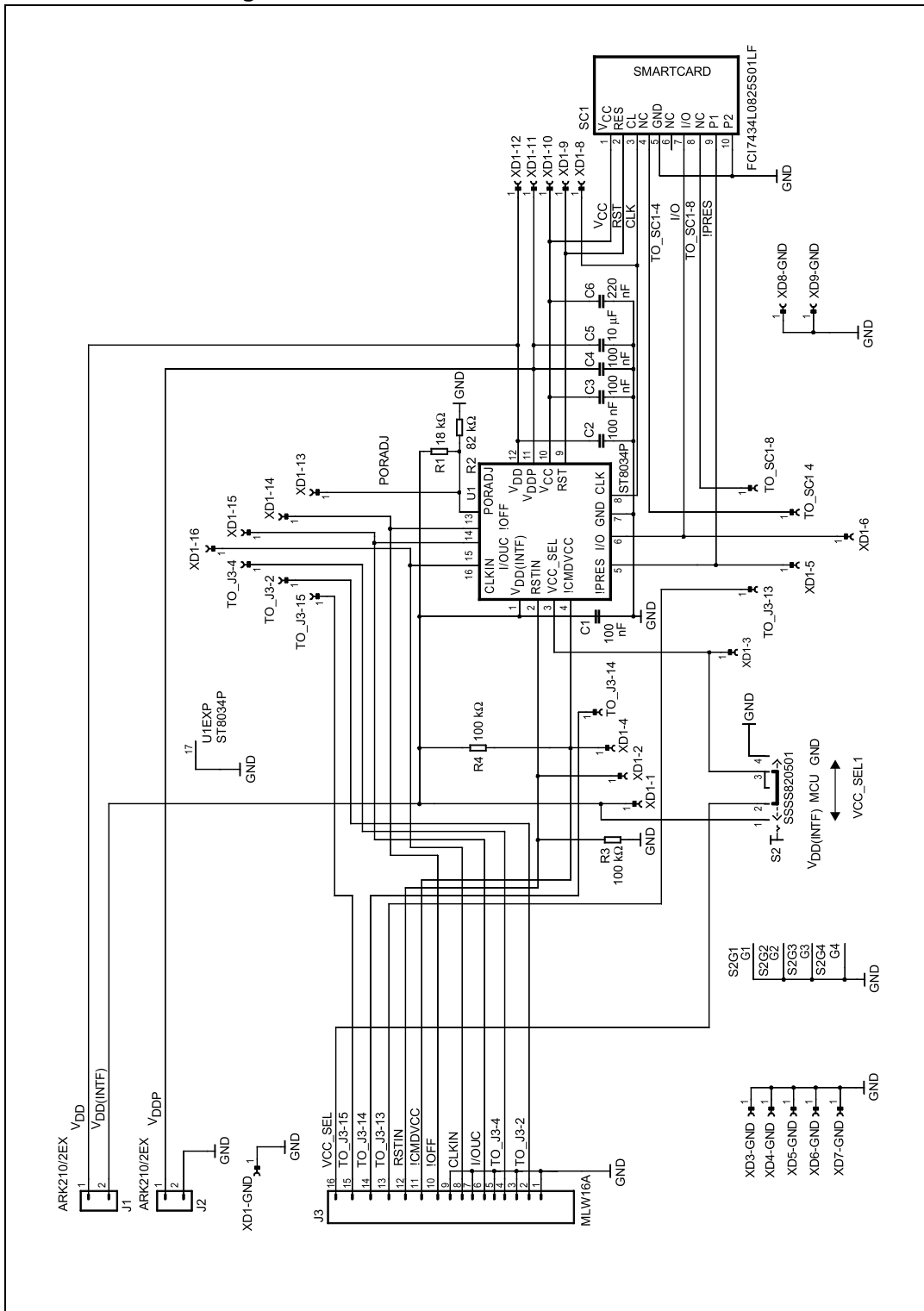
The STEVAL-IPT005V1 product evaluation board is designed both for standalone operation or to be controlled by the microcontroller. The board is fully configurable, provides access to all signals including supply voltage through labeled test points, and uses a standard connector for simple communication interfacing with the microcontroller block. The labeled test points on the board are in the same order as the signals in the flat interface cable.

The board provides easy and flexible card supply voltage (V_{CC}) selection, either through the onboard configuration switch (driving the tri-state V_{CC} selection input pin V_{CC_SEL}) or through the microcontroller.

The STEVAL-IPT005V1 product evaluation board addresses market segments including: POS, set-top boxes, pay TV, identification, banking and tachographs.

1 Schematic diagram

Figure 1. STEVAL-IPT005V1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Dec-2013	1	Initial release.
10-Apr-2014	2	Title has been corrected.

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