

# ST16-19RFRDCS010

# CONTACTLESS READER CHIP SET

#### DATA BRIEFING

# FUNCTION: ANALOG FRONT END FOR CONTACTLESS SMARTCARD READER

## GENERAL DESCRIPTION

- This is an analog front end dedicated to contactless Smartcards reader chip set.
- This interface complies with ISO 14443-2 Type
  B: powering, data transfer from reader to card with amplitude modulation, data transfer from card to reader with load modulation.

## MAIN FEATURES

- Supply voltage: 12 V
- Modulation: 10% ASK
- Data transfer to card: up to 424 KBit/second
- Data transfer to reader: up to 424 KBit/second
- Quartz oscillator 13.56 MHz ± 100 ppm

#### FUNCTION: DECODER AND FRAME FORMATING FOR CONTACTLESS SMARTCARD READERS

#### GENERAL DESCRIPTION

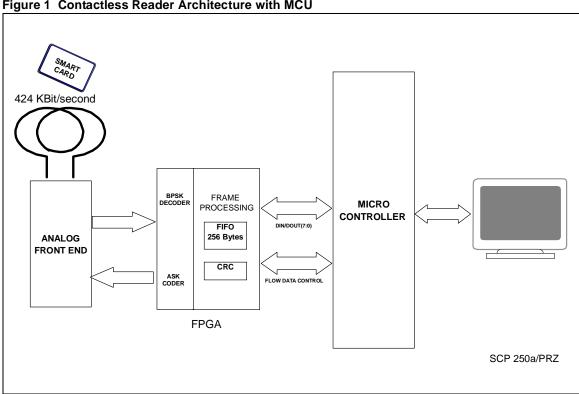
 This is an FPGA dedicated to contactless Smartcards reader chip set. This interface complies with ISO 14443-3 Type B

#### ■ MAIN FEATURES

- Supply voltage: 3.3 V
- Programmable data transfer from reader to card
- 106 KBit/second, 212 KBit/second and 424 KBit/ second
- Programmable data transfer from card to reader
- 106 KBit/second, 212 KBit/second and 424 KBit/ second
- 8 bit parallel interface for MCU

This is Brief Data from STMicroelectronics. Details are subject to change without notice. For complete data, please contact your nearest Sales Office or SmartCard Products Divison, Rousset, France. Fax: (+33) 4 42 68 87 29

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# Figure 1 Contactless Reader Architecture with MCU

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