

STRF2163 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.
- 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.
- MAIN FEATURES
- Supply voltage: from 5 V to 15 V
- Modulation: 10% ASK
- Data transfer to card: up to 424 KBit/second
- Data transfer to reader: up to 424 KBit/second
- DC subcarrier output level
- 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 Smartcard. 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
- Programmable SCI interface from 4800 to 115 KBit/second

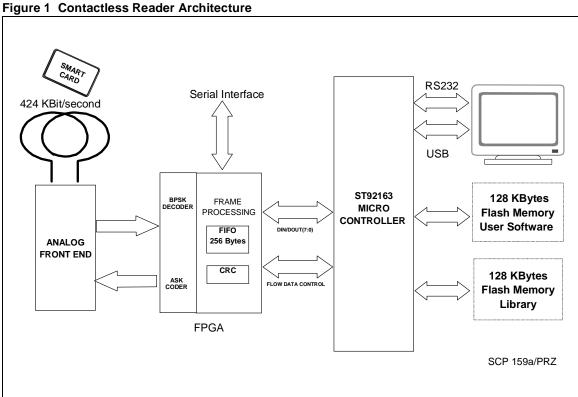
FUNCTION: MCU FOR CONTACTLESS SMARTCARD READER

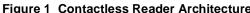
- GENERAL DESCRIPTION
- the ST92163 is a 8/16 bit MCU
- MAIN FEATURES
- Supply voltage: 5 V
- Internal memory 16 K bytes OTP
- 2 K Bytes of RAM
- 24 MHz CPU frequency
- Full speed USB
- SCI up to 315 KBit
- External memory up to 256 KBytes
- Rich instruction set with 14 addressing modes, versatile development tools, including assembler, linker, C compiler, hardware emulators and real time operating system.

October 1999

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 25 87 29

STRF2163





57