



SIC7150
SIC7151
SIC7152



LF RFID TRANSPONDER ICs

FOR INDUSTRIAL & ANIMAL IDENTIFICATION

SIC7150, SIC7151, and SIC7152 are low frequency RFID transponder ICs with full-duplex protocol designed for various applications, operating at both 125 kHz for industrial use and 134.2 kHz for animal identification.

Each transponder IC features a unique on-chip resonant capacitor that optimizes performance across various antenna configurations, ensuring superior functionality in diverse applications.

Powered by Silicon Craft Technology's IPs, the SIC7150 integrates a tunable resonant capacitor, enhancing communication capabilities and delivering best-in-class performance.

ON-CHIP RESONANT CAPACITORS

SIC7150	SIC7151	SIC7152
330 pF	210 pF	250 pF

HIGHLIGHT FEATURES

- Frequency Range 100-150 kHz
- On-chip Tunable Resonant Capacitor $\pm 5\%$ of Resonance Capacitor *
- Long Reading Range
- Support for Reader Talk First

*Only available for SIC7150

SUPPORTED PROTOCOL

- Compliance with ISO 11784/11785 FDX-B
- Command Compatibility with Mainstream FDX Products on the Market
- Support Bi-phase and Manchester Modulation

MEMORY

- 320 bits in User Memory Area
- 100,000 Erase/Write Cycles
- 10 Years Non-Volatile Data Retention
- Secure Memory Lock Functionality

APPLICATIONS

- Animal Identification
- Asset Tagging
- Industrial Automation
- Access Control System