

# INJECTABLE TRANSPONDER FOR ANIMAL IDENTIFICATION

LF RFID transponders have become prevalent technology for efficient animal identification and tracking. This unique identification allows for seamless recording of information such as the animal's age, weight, vaccination history, etc. All recorded data support the animal management application.

The transponder is also utilized for small-sized animals such as pets, laboratory animals, fish, birds, and more. Transponders for these animals are primarily designed in small form factors, like bio-glass mini transponders that can be injected under the skin. Subsequently, a handheld RFID reader is employed to read the unique identification to get pertinent information.

**SIC7150 is an LF FDX RFID IC designed for bio-glass mini transponders smaller than 10 mm, with an on-chip tunable resonant capacitor that enhances operational efficiency.**



## How It Works



Use a bio-glass mini transponder with a syringe.



Inject the bio-glass mini transponder into a pet at the proper position.



Use a handheld reader to read the pet's ID.

## Benefits

- **Legal Requirements:** Many regions mandate pet identification tags or microchips for licensing and registration purposes.
- **Lost Pet Recovery:** Identification helps reunite lost pets with their owners more quickly.
- **Medical Care:** Identification ensures that medical professionals can access vital information about a pet's health history and any special needs.