



**IDentity Flex-Transponder**



## Features:

- **User Replaceable Battery**  
4 year life using single cell  
8 year life using optional dual cell
- **SIRIT Programmed**  
Transponder information can be programmed to a customer's specification including unique transponder facility codes and unique ID numbers.
- **Attachments**  
Available with either Velcro™ or two-sided tape.
- **External Mount Transponder**  
**SIRIT's** License Plate Transponder provides an alternative solution to window-mounted transponders.

## Function

The **IDentity Flex** transponder is a small Radio Frequency (RF) device designed for Automatic Vehicle Identification (AVI). Each transponder contains a factory programmed, unique 64-bit identification code. The **IDentity Flex** transponder comes equipped with a standard user replaceable 4-year coin cell battery. When longer life is required, an additional battery can be added. Where security is of primary concern, the **IDentity S-Flex** transponder provides a unique "Break-on-Removal" feature that deactivates the transponder once removed from the window.

## How it works

The transponder uses radio frequency (RF) backscatter modulation technology to respond to information from an **IDentity Flex** reader by reflecting and modulating the reader's RF signal. As a vehicle approaches the read zone, the presence of a RF field "wakes" the transponder. Once activated, the transponder returns a preprogrammed code to the reader system through the antenna.

The **IDentity Flex** transponder's wireless link uses comprehensive error detection methods to ensure a 99.9% accuracy rate even under the most adverse environmental conditions. Error detection and correction also ensures information is transferred accurately between the transponder and reader. The read range can be configured by **IDentity Flex** Reader to a maximum distance of 25 feet.



Authorized SIRIT Dealer



Communications / Memory / Electrical specifications

**Operating Frequency:** 916.25 MHz

**Data Storage:** 64-bit

**Working Range:** Set by reader up to 7.7m (25 feet)

**Power Source:** Internal, 3 Volt, lithium battery, CR2032

**Data Rate:** Net data rates up to 1,000 kbps; Manchester encoded data rate of 300 kbps



Physical specifications

**Size (WxHxD):** Flex - 8 x 9 x 1 cm (4.2 x 2.6 x 0.5")  
License Plate Tag - 20.9 x 4.3 x 2.8 cm ( 8.25 x 1.68 x 1.1")

**Weight:** Flex - 62 g (2.2 ounces)  
License Plate Tag - 140 g ( 4.938 ounces)

**Storage Temperature:** -40°C to +114°C (-40°F to 237°F)

**Operating Temperature:** -25°C to +85°C (-13°F to 185°F)

**Humidity:** 85% non-condensing @ 85°C

**Battery Life / Reliability:** Flex - 4 years (single cell user replaceable, 8 years with opt. dual cell)  
License Plate Tag - internal 4 years Non replaceable

**Case Material:** Polycarbonate welded and weather resistant plastics



Ordering information

<b>Model Numbers:</b>	<b>Options:</b>
IDFLEX-TAG-4 Flex Transponder	IDFLEX-VELCRO (Velcro™)
IDFLEX-TAG-4BOR (deactivates upon removal)	IDFLEX-TS-TAPE (two sided tape)
IDFLEX-TAG-4LP (license plate mount)	IDFLEX-BAT-CLIP (optional 2nd battery with clip)



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