



915 MHz Transponder

Automatic Vehicle Identification (AVI)



IDentity FLEX-TAG-4



Features:

- || **User Replaceable Battery**
4-5 year life using single cell
8-10 year life using optional dual cell.
- || **SIRIT Programmed**
Transponder information can be programmed to a customer's specification including unique transponder facility code and unique ID number.
- || **Attachments**
Available in either Velcro™ or two-sided tape.
- || **External Mount Transponder**
SIRIT's License Plate Transponder provides an alternative solution to window mount tags.

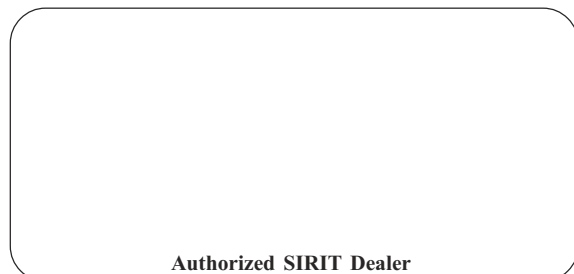
Function

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 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 Flex** transponder can be ordered with 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 99.995% 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.





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Communications / Memory / Electrical specifications

Operating frequency:	916.25 MHz
Data Storage:	64-bit
Working range:	Set by reader up to 25 feet (7.7m)
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 (baud)



Physical specifications

Size (WxHxD):	Flex - 8 x 9 x 1 cm (4.2 x 2.6 x 0.5") 6 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 - 4-5 years (single cell user replaceable, 8-10 years with opt. dual cell) License Plate Tag - Internal 4 year
Case material:	Polycarbonate welded and weather resistant plastics



Ordering information

Model numbers:	Options:
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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