



## IDentity ZiP Transponder

Ultra High Frequency 912.5 - 920.5 MHz  
Transponder for Automatic Vehicle Identification

### FEATURES

- Battery-less operation  
Transponder is powered by the antenna
- Choice of operating frequency  
Reader selectable from 912.5 to 920.5 MHz
- Easy installation  
"Peel-able" label (non-transferable windshield tag) allows for easy attachment
- Two tag formats available  
Select either internal windshield mount or external mounted license plate transponder

### Overview

The IDentity ZiP transponder is a small radio frequency (RF) device designed for Sirit's Automatic Vehicle Identification system. Each transponder contains a unique 64-bit identification code and utilizes energy from the antenna for power, eliminating the requirement for a battery. For flexibility, there are three versions of this transponder - a non-transferable interior mounted windshield tag, a transferable interior mounted windshield tag, and a ruggedized exterior mounted license plate tag. By using the IDentity ZiP transponder, tedious lineups and delays can be substantially reduced.

### How It Works

Sirit's IDentity ZiP transponder uses RF backscatter modulation technology to respond to signals emitted by an IDentity ZiP reader by reflecting and modulating the reader's RF signal. As a vehicle approaches the read zone, the presence of an RF field "wakes" the transponder. Once activated, the transponder returns a pre-programmed code to the reader system through the IDentity ZiP antenna.




The IDentity ZiP transponder's wireless link uses comprehensive error detection methods to ensure a high accuracy rate even under the most adverse environmental conditions. Error detection and correction also ensures information is transferred accurately between the transponder and reader. This read range can be configured by the IDentity ZiP reader to a maximum distance of 18 feet.



# IDentity ZiP Transponder

## 912.5 - 920.5 MHz Windshield or License Plate Tag



Performance Characteristics	
Operating Frequency:	912.5 MHz to 920.5 MHz (selectable by reader)
Working Range:	Set by reader & antenna configuration. Utilizing IDentity ZiP system read range up to 5.5 m (18 ft.); IDentity MaX reader up to 3.1 m (10 ft.).
Data Rate:	80 kbps
Data Storage:	64-bit
Physical Characteristics	
Dimensions (LxWxD):	Non-transferable ZiP Tag: 15.2 x 1.9 cm (6.00 x 0.75 in.) Transferable ZiP Tag: 15.6 x 2.2 cm (6.12 x 0.80 in.) License Plate Tag: 20.9 x 4.3 x 2.8 cm (8.25 x 1.68 x 1.10 in.)
Weight:	Non-transferable ZiP Tag: 1.2 g (0.04 oz.) Transferable ZiP Tag: 9.0 g (0.32 oz.) License Plate Tag: 75.8 g (2.67 oz.)
Environment	
Operating Temperature:	-25°C to +85°C (-13°F to 185°F)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Relative Humidity:	85% non-condensing @ 85°C
Power:	RF beam powered by reader/antenna, no battery required
Case Material:	License Plate Transponder: Welded polycarbonate weather resistant plastic
Ordering Information	
<b>Part Number:</b> IDZIP-TAG-01 IDZIP-TAG-02 IDZIP-TAG-LP	<b>Description:</b> IDentity ZiP Transponder (Non-Transferable) IDentity ZiP Transponder with Velcro™ (Transferable) External License Plate ZiP Transponder
<b>Options:</b> IDZIP-MEM	CompactFlash™ memory card - included with orders of 100 transponders or more
Models:	
 IDentity ZiP Non-Transferable Windshield Transponder/Tag	
 IDentity ZiP Transferable Windshield Transponder/Tag	
 IDentity ZiP License Plate Transponder/Tag	

SIRIT - CANADA  
372 Bay Street, Suite 1100  
Toronto, ON M5H 2W9 Canada  
Tel: 416.367.1897  
Fax: 416.367.1435

SIRIT - USA  
1321 Valwood Parkway, Suite 620  
Carrollton, Texas 75006 USA  
Tel: 972.243.7208  
Fax: 972.243.8034

For more information,  
contact sales toll free  
at 1.800.498.8760

E-mail: [pacs@sirit.com](mailto:pacs@sirit.com)

[www.sirit.com](http://www.sirit.com)

### About Sirit Inc.

Sirit Inc. (TSX: SI) is a leading provider of Radio Frequency Identification (RFID) reader technology to OEMs and solution providers worldwide. Harnessing the power of Sirit's enabling-RFID technology, customers are able to more rapidly bring high quality RFID solutions to the market with reduced initial engineering costs. Sirit's products are built on more than 13 years of RF domain expertise addressing multiple frequencies (LF/HF/UHF), multiple protocols and are compliant with global standards. Sirit's broad portfolio of products and capabilities are easily customized to address new and traditional RFID market applications including Supply Chain & Logistics, Cashless Payment, Access Control, Automatic Vehicle Identification, Inventory Control & Management, Asset Tracking and Product Authentication. For more information, visit [www.sirit.com](http://www.sirit.com).



The "RFID by Sirit" symbol signifies that Sirit Inc.'s high quality RFID reader technology resides within this product.

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