



## IDentity MaX Transponders

Ultra High Frequency 865 - 960 MHz  
Transponder for Automatic Vehicle Identification

### FEATURES

- Batteryless operation  
Transponder is powered by the integrated reader/antenna device
- Ideal for wide range of applications
  - Commercial Parking
  - Gated communities
  - Universities campuses
  - Hospitals and many more
- Worldwide compliance in credit card format

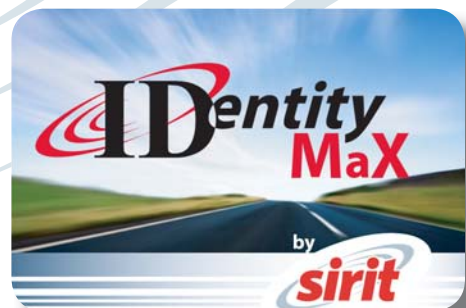
### Overview

The IDentity MaX transponder is a small radio frequency (RF) device designed for Sirit's Automatic Vehicle Identification system. Each transponder contains a unique identification code and utilizes energy from the antenna for power, eliminating the requirement for a battery. The credit card form factor is small and convenient eliminating tedious lineups and delays associated with unautomated systems.

### How It Works

Sirit's IDentity MaX transponder uses RF backscatter modulation technology to respond to signals emitted by an IDentity MaX reader by reflecting and modulating the reader's RF signal. As a card 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 integrated IDentity MaX antenna.

The IDentity MaX 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 MaX reader to a maximum distance of 2.4 metres.



# IDentity MaX Transponders

## 865 - 960 MHz Global, Batteryless Transponders



### Performance Characteristics

Operating Frequency:	865 MHz to 960 MHz
Working Range:	Determined by reader & antenna configuration; up to 1.8 - 2.4 m (6-8 ft.) with MaX reader
Data Rate:	Up to 640 kbps
Data Storage:	96-bit

### Physical Characteristics

Dimensions (LxWxD):	8.6 x 5.7 cm (3.375 x 2.25 in.)
Weight:	6 g (0.2 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:	10% - 90% non-condensing
Power:	RF beam powered by reader/antenna, no battery required
Case Material:	Polycarbonate/ABS blend

### Ordering Information

Part Number:	Description:
IDMAX-TAG-01	IDentity MaXpass Transponder

Models:



IDentity MaXpass

### 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).

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

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