



IDentity Windshield Mount Tag, Transferrable

Ultra High Frequency 865 - 928 MHz
Global Passive Transponder

Overview

The *IDentity* Transferrable Windshield Mount Tag is a high performance radio frequency (RF) transponder designed to be used in conjunction with Sirit's *IDentity* 5000 series reader systems for automatic vehicle identification applications.

Developed for vehicle identification solutions which require the tag to be mounted on a glass surface, such as a vehicle windshield, each transponder is capable of read/write functionality, contains a unique identification code, and is powered by utilizing energy from the reader, eliminating the requirement for a battery. The windshield transponder has a compact, transferrable form factor so as not to hinder the driver's view, while offering the ability to transfer the tag between vehicles.

The *IDentity* series tag and reader solution is ideally suited for a number of global transportation applications including Electronic Vehicle Registration (EVR), vehicle emissions testing, proof of insurance compliance and electronic tolling. By eliminating the manual, visual-based inspection associated with current systems the Sirit solution enables system operators to securely identify vehicles with appropriate authorizations from a distance, while the vehicle is in motion.

Security & Authentication

Sirit's "Secure Reader" and "Secure Tag" technologies offer multiple levels of security and authentication options. These options provide authentication techniques for the transponder. In addition, Sirit provides "RF" security features that verify the authenticity of a transponder during communications with the reader and provide security of sensitive information that may be stored on the tag.

These security and authentication features have been successfully tested at vehicle speeds up to 140 MPH (225 KPH).

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865 - 928 MHz Global, Passive Transponders



Performance Characteristics	
Operating Frequency:	902 - 928 MHz Americas, 4 W EIRP 869.4 - 869.56 MHz Europe, 0.5 W ERP 865.6 - 867.6 MHz Europe, 2 W ERP
Supported Protocol:	ISO 18000-6C
Data Transfer Rate:	Up to 640 kbps
Physical Characteristics	
Dimensions (LxW):	155.4 x 20.32 mm (6.12 x 0.8 in.)
Weight:	10 g (0.353 oz)
Environment	
ESD Voltage Immunity:	+/- 3kV
Operating Temperature:	-40°C to +85°C (-40°F to 185°F)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Relative Humidity:	30% - 70%
Tag Memory & Security	
Tag Part Numbers	ID-WMT-TR-L1S ID-WMT-TR-L3S
On-Chip Memory:	752 bits 800 bits
Tag Identifier:	64 bits 64 bits
Access password:	32 bits 32 bits
Kill password:	32 bits 32 bits
EEPROM data retention:	10 years 10 years
EEPROM write endurance:	10,000 cycles 10,000 cycles
Unique TID	Yes Yes
Password Authentication	Yes Yes
Read Lockable Memory	No Yes

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(Transferrable)

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About Sirit

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 16 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.



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

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