



## IDentity MaX Pro Series

Integrated Automatic Vehicle Identification (AVI) System  
Ultra High Frequency (UHF) 902 - 928 MHz Frequency Hopping

### FEATURES

- Integrated reader & antenna  
Designed for operation with UHF tags yielding superior read range when compared to traditional long-range card systems
- Operation  
Storage of tag list in reader using IDentity Max Pro firmware enables either system based or stand-alone functionality
- Ethernet capability  
Allows network access through standard Ethernet connectivity and unique Power over Ethernet (PoE) functionality

### Overview

Sirit's IDentity MaX Pro system uses UHF radio frequency identification (RFID) technology to create an integrated automatic vehicle identification (AVI) solution offering superior price/performance characteristics over traditional long range transponder and card systems. The IDentity MaX Pro system offers a variety of transponder form factors including non-transferrable windshield mount version for handsfree operation or in a portable credit card tag for sidefire installations.

IDentity MaX Pro is an integrated system providing an economical solution for automatic vehicle identification and access control applications alike. It is protected against the elements by a weather resistant enclosure and is intended as a single read point in a pedestal, pole, wall or ceiling mounted configuration.

The IDentity MaX Pro reader is supported by four independent discrete TTL capable inputs, which may be used for vehicle detecting loops, light curtains or other detection schemes required by the installation. Additionally, the reader has four discrete 5V outputs which are current limited and electronically configurable for either push pull or external pull up resistors. These outputs can be used for gate vending control, vehicle stop-and-go light control or other purposes. Sirit has optional relay modules for applications that require output voltages greater than 5V.

### Communication

The IDentity MaX Pro reader communicates transponder activity to a variety of established host systems via Wiegand, RS-232, RS-422, RS-485, or Ethernet protocols.

# Identity MaX Pro Series

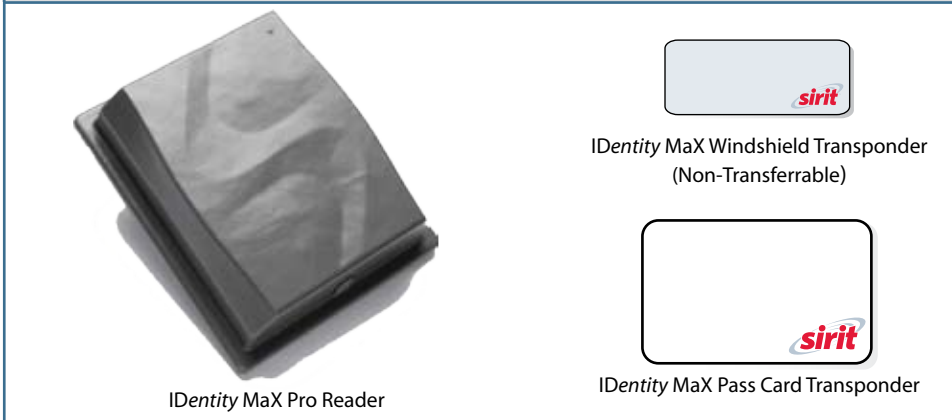
## 902 - 928 MHz Integrated Access Control Reader System



Identity MaX Pro Reader	
Frequency:	FCC UHF band, 902 MHz to 928 MHz
Tag Protocols Supported:	All Sirit Identity MaX Pro and ZiP transponders leveraging standard UHF protocol
Working Range:	Determined by Max Pro reader configuration; MaX Non Transferrable Windshield Transponder Up to 4.5 m (15 ft); MaX Pass Credit Card Transponder Up to 3 m (10 ft)
Antenna Type:	Circular polarized
Communications Protocol:	Wiegand, RS-232, RS-422, RS-485, USB 2.0. 802.3af Power over Ethernet. The serial interfaces support baud rates of up to 115 Kbps
Data Format:	Configurable 26 to 34-bit (Wiegand); Forward compatible for higher Wiegand configurations, up to 154-bit
Power:	85 to 264 VAC, 600mA or Power over Ethernet (+48VDC, 600 mA)
External Inputs / Outputs:	Four / Four
Ethernet Compatible	Yes
LED	Yes
Operation	3rd Party or Stand Alone
Dimensions (LxWxD):	~30.5 x 25.4 x 10.2 cm (12.00 x 10.00 x 4.00 in.)
Packaging:	Weather proof integrated antenna enclosure
Mounting:	Pedestal, pole, wall or ceiling mounted
Weight:	~5.4 kg (~12 lb.)

Identity MaX Transponder/Tag	
Dimensions (LxW):	MaX Non Transferrable Windshield Transponder 25.4mm x 67.31mm (2.65 in x 1.0 in.)
	MaX Pass Card Transponder 85.72mm x 53.97 mm (3.375 x 2.125 in.)

Environment	
Operating Temperature:	-25°C to +60°C (-13°F to 140°F)
Storage Temperature:	-40°C to +114°C (-40°F to 237°F)
Relative Humidity:	85% non-condensing
Regulatory:	FCC part 15; Industry Canada approval



Identity MaX Pro Reader

Identity MaX Windshield Transponder (Non-Transferrable)

Identity MaX Pass Card Transponder

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### 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 14 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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