

FEATURES

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

IDentity MaX Reader

Integrated Automatic Vehicle Identification (AVI) Reader
FCC Compliant, Ultra High Frequency (UHF) 902 - 928 MHz

Overview

Sirit's IDentity MaX reader uses UHF radio frequency identification (RFID) technology to create an integrated automatic vehicle identification (AVI) system offering superior price/performance characteristics over traditional long range proximity card systems. Protected against the elements by a weather resistant enclosure, this self-contained combination reader and antenna unit is intended as a single read point in a pedestal, pole, wall or ceiling mounted configuration. The integrated reader provides an economical solution for automatic vehicle identification and access control applications alike.

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



Identity MaX Reader

902 - 928 MHz Integrated Access Control Reader



Performance Characteristics	
Frequency:	FCC UHF band, 902 MHz to 928 MHz
Tag Protocols Supported:	All Sirit Identity MaX and ZIP tags based on industry standard UHF protocols
Working Range:	Read performance varies based on tag, configuration and environment. Utilizing Identity ZIP tag ~2.4 to 3.1 m (8 to 10 ft.); Identity MaXpass ~1.8 to 2.4 m (6 to 8 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); future support for higher Wiegand configuration up to 154-bit
External Inputs:	Four
External Outputs:	Four
Ethernet Compatible:	Yes
Translation Table:	Yes
Tag Buffering:	Yes
LED:	Yes
Stand Alone Operation:	Optional
Physical Characteristics	
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.)
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
Power:	Power over Ethernet (+48VDC, 600 mA) or 85 to 264 VAC, 600mA
Regulatory:	FCC part 15 Industry Canada approval
Ordering Information:	
Part Number:	Description:
IDMAX-READER	MaX Reader
IDMAX-CABLE-20	20 ft., 30 pin cable with pre-assembled cannon plug
IDMAX - CMB	Ceiling mount bracket
IDMAX - WMB	Pole/wall mount bracket
IDMAX - PMB	Pedestal mount bracket
IDMAX-MAN-H/W	Hardware installation manual
IDMAX-REL-01	Relay kit with one relay



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.

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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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