sirit
vision beyond sight ™

ID*entity* MaX Pro Reader

Integrated Automatic Vehicle Identification (AVI) Reader
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 ID*entity* 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
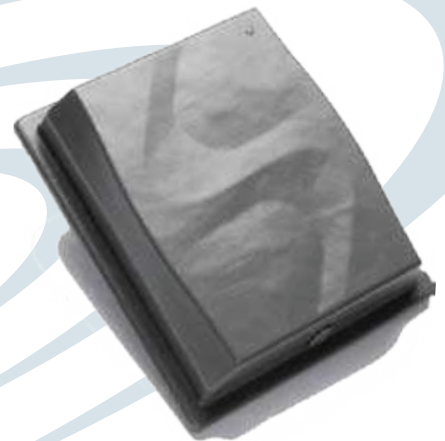
Overview

Sirit's ID*entity* MaX Pro 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 transponder and card systems. Protected against the elements by a weather resistant enclosure, this self-contained combined 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 ID*entity* 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 ID*entity* MaX Pro reader communicates transponder activity to a variety of established host systems via Wiegand, RS-232, RS-422, RS-485 , or Ethernet protocols.

ID*entity* MaX Pro 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 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. 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
External Inputs:	Four
External Outputs:	Four
Ethernet Compatible	Yes
Tag Buffering:	Yes
LED	Yes
Operation	3rd Party or Stand Alone

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 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:	85 to 264 VAC, 600mA or Power over Ethernet (+48VDC, 600 mA)
Regulatory:	FCC part 15 Industry Canada approval

Ordering Information:

Part Number:	Description:
IDMAX-READER-PRO	IDentity MaX Pro 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-REL-01	Relay kit with one relay
IDMAX-REL-02	Relay kit with two relays

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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.