

## IDentity FleX Reader

Ultra High Frequency 916.25 MHz  
Multi-Channel, Multi-Protocol Reader

### FEATURES

- Multi-channel reader  
Available with either 2 or 4 channels; 4 channel version capable of controlling up to 4 lanes
- Multi-protocol reader  
Capable of reading both the IDentity FleX and Title 21 compliant transponders
- Stand-alone operation  
Storage of tag list in reader using IDentity FleX software enables stand-alone functionality

### Overview

Sirit's IDentity FleX reader uses radio frequency identification (RFID) technology to read Sirit IDentity FleX and Title 21 vehicle-mount transponders. Protected against the elements by a weather resistant NEMA enclosure, this self-contained versatile reader is capable of stand-alone operation or interfacing with industry standard controllers. The IDentity FleX reader's unique ability to support up to four antennas/lanes provides an economical solution for most automatic vehicle access applications.

### Multi-Channel Reader

The IDentity FleX reader can handle up to four separate lane/antenna locations. Each of the four read points is supported by two independent discrete TTL capable inputs, which may be used for vehicle detecting loops, light curtains or other detection schemes required by the installation. Additionally, each read point has two discrete outputs which are jumper configurable for either +5 VDC or +12 VDC current limited outputs. These outputs can be used for gate vending control, vehicle stop-and-go light control or other purposes. For added flexibility, each of the four antennas may be remotely located up to 200 feet from the reader by the use of coax cable.

### Communication

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



# IDentity FleX Reader

## 916.25 MHz Multi Channel Reader



### Performance Characteristics

Frequency:	UHF band, 916.25 MHz
Working Range:	Set by reader, up to 7.7 m (25 ft.)
Communications Protocol:	Wiegand, RS-232, RS-485
Data Format:	Configurable 26 to 34-bit (Wiegand)
External Inputs:	Two independent discrete TTL inputs
External Outputs:	Two independent discrete outputs, jumper configurable to either +5 VDC or +12 VDC

### Physical Characteristics

Dimensions - Reader:	24.1 x 22.9 x 3.2 cm (9.50 x 9.00 x 1.25 in.) (LxWxD)
Dimensions - NEMA Enclosure:	42.0 x 37.0 x 20.3 cm (16.55 x 14.55 x 8.00 in.) (LxWxD)
Packaging:	NEMA 4X weather proof enclosure
Weight:	8.0 kg (17.60 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 @ 85°C
Power:	85 to 264 VAC, 4 Amps
Regulatory:	FCC part 15 and 90 Industry Canada approval # 3637371115A

### Ordering Information

Part Number:	Description:
IDFLEX-READER-IIE	2 channel ID FleX Reader w/NEMA enclosure & power supply
IDFLEX-READER-IVE	4 channel ID FleX Reader w/NEMA enclosure & power supply
IDFLEX-CB-II	2 channel IDentity FleX Reader (board only)
IDFLEX-CB-IV	4 channel IDentity FleX Reader (board only)
IDFLEX-READER-PS	IDentity FleX power supply
IDFLEX-MAN-H/W	Hardware installation manual
IDFLEX-MAN-S/W (DOS)	DOS software manual
IDFLEX-MAN-S/W (WIN)	Windows® software CD with manual
IDFLEX-REL-01	Relay kit with 1 relay
IDFLEX-REL-02	Relay kit with 2 relays
IDFLEX-REL-03	Relay kit with 3 relays
IDFLEX-REL-04	Relay kit with 4 relays
IDFLEX-REL-DC-DC	Dry contact DC output relay



IDentity FleX Reader with NEMA Enclosure & Power Supply



SIRIT - CANADA  
372 Bay Street, Suite 1100  
Toronto, ON M5H 2W9 Canada  
Tel: 416.367.1897  
Fax: 416.367.1435

SIRIT - USA  
1321 Valwood Parkway, Suite 620  
Carrollton, Texas 75006 USA  
Tel: 972.243.7208  
Fax: 972.243.8034

For more information,  
contact sales toll free  
at 1.800.498.8760

E-mail: [pacs@sirit.com](mailto:pacs@sirit.com)

[www.sirit.com](http://www.sirit.com)

### 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).



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

© 2006 Sirit Inc., all rights reserved. "Sirit", the Sirit Design, "RFID by Sirit", the RFID by Sirit Design and "vision beyond sight" are all trademarks of Sirit Inc. All other trademarks are the property of their respective owners. Specifications subject to change without notice.