

## FEATURES

- Support of leading compliant UHF Class 0, Writable Class 0/0+, Class 1 tags and UHF Generation 2 tags  
Reads/writes tags in any environment with a single component
- Single connection to serial interface and power supply  
Provides an easy way to connect to existing devices
- Firmware download facility via the serial interface  
Permits forward compatibility to future protocols via upgrades
- User adjustable output power up to 1 Watt (30 dBm)  
Allows optimum output for the application
- Single or dual port antenna via MMCX connection  
Delivers integration flexibility into new or existing equipment

## TAGS SUPPORTED

EPCglobal UHF Class 0  
Writable Class 0/0+  
EPCglobal UHF Class 1  
EPCglobal UHF Generation 2

## INfinity 200

### Ultra High Frequency 902 - 928 MHz Multi-Protocol EPCglobal™ Reader Module

#### Overview

Supporting EPC compliant UHF tags, the INfinity 200 multi-protocol embedded RFID reader is a compact yet powerful OEM module designed for integration into handheld portable data terminals, printers, label applicators, mobile computers and other OEM devices.

Connection to the board is made via a single connector, which provides the board with power and enables the bi-directional transfer of serial data at 0 to 3.3V TTL logic levels.

Configured to meet application requirements, the INfinity 200 comes with an integrated internal patch antenna or an optional external 50 ohm antenna connection. In addition, to support future tag protocol standards as they develop, firmware can be flash upgraded through the serial interface, enabling on-site product updates.



#### Applications

Typical applications for this product include key-based handheld portable data computers, pen-based portable data terminals, smart label printers, smart label applicators and other OEM devices.

# INfinity 200

## 902 - 928 MHz Multi-Protocol EPCglobal Reader Module



### Performance Characteristics

Frequency:	UHF band, 902 - 928 MHz
Supported Transponders:	EPCglobal Class 0, Writable Class 0/0+, EPCglobal Class 1, EPCglobal UHF Generation 2
Communications Protocol:	Serial with CCITT CRC-16 error detection
Communications Parameters:	115,200 bps, 8 data bits, no parity, 1 stop bit
Communications Signal Level:	TTL level
Interface Connector:	10 pin 2 mm Sullins PPPN052FFKP or equivalent
Antenna Type:	Integrated internal patch antenna Optional: External 50 ohm antenna connection (MMCX)
Upgradeable Firmware:	Yes

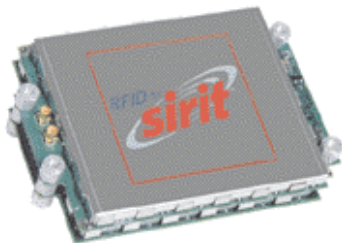
### Physical Characteristics

Dimensions (LxWxD):	97.8 x 67.3 x 26.9 mm (3.85 x 2.65 x 1.06 in.) including integrated antenna
Weight:	With integrated antenna: 147.0 g (5.2 oz.) Without integrated antenna: 77.0 g (2.7 oz.)
Mounting:	4 corner-mounted standoffs with #4-40 threads, male or female configuration

### Environment

Operating Temperature:	-20°C to +70°C (-4°F to 158°F)
Storage Temperature:	-40°C to +100°C (-40°F to 212°F)
Relative Humidity:	80%, non-condensing
Power:	
Input Voltage:	+5 VDC ± 5%
Active Current:	1.5 A peak
Standby Current:	160 mA, Nominal
Idle:	< 1mA
RF Output Power:	1 Watt (30 dBm)
Regulatory:	Compliance to FCC Part 15

### Models:



INfinity 200 UHF EPC Reader Module



INfinity 200 UHF EPC Reader with Integrated Antenna

### 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 12 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).

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

2525 Meridian Parkway, Suite 60  
Durham, North Carolina 27713 USA  
Tel: 919.281.1541  
Fax: 919.281.1551

9815 Cogdill Road, Suite 4  
Knoxville, Tennessee 37932 USA  
Tel: 865.966.8775  
Fax: 865.966.8812

For more information,  
contact sales toll free  
at 1.866.338.9586

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

[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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