

## FEATURES

- Supports leading HF smart labels  
Reads/writes different tags and smart labels via a single module
- Single connection to serial interface and power supply  
Connects easily to existing devices
- Standard baud rate and serial level  
Permits plug and play interfacing to a wide range of devices
- Secure firmware download facility via the serial interface  
Allows field upgrades for future firmware releases
- Built-in antenna and switchable attenuator  
Allows for easy integration and variable power output
- On-board fuse  
Provides protection against power surges

## TAGS SUPPORTED

ISO 15693  
Gemplus FOLIO  
Inside PicoTag™  
Omron V720  
Philips I-CODE  
TI-RFID™ Tag-it™

## INfinity 167

### High Frequency 13.56 MHz RFID & Smart Label OEM Reader Module

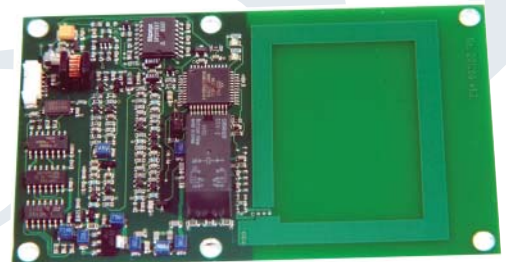
#### Overview

The INfinity 167 is a versatile RFID reader component that supports most leading 13.56 MHz tags and smart labels. Based on the popular Sirit INfinity 166 reader, the INfinity 167 reader module has been modified to incorporate an on-board antenna. Its compact design provides versatility and easy integration within a wide range of industrial automation products.

Connection to the INfinity 167 is made via a single connector, which provides the board with power and provides an easy way to connect to existing devices. In addition, to enable future upgrading of new tag types and code enhancements, firmware can be flash upgraded through the serial interface. This permits the product to be easily updated in its surrounding environment.

#### Applications

Typical applications for the INfinity 167 include industrial printers for the programming of smart labels at source, non life-critical medical applications, product verification and access control.



# INfinity 167

## 13.56 MHz RFID Reader Module with Integrated Antenna



### Performance Characteristics

Frequency:	HF Band, 13.56 MHz
Supported Transponders:	ISO 15693, Inside PicoTag, Philips I-CODE, Microchip MCRF355/360, TI-RFID Tag-it, EPCglobal HF
Communications Protocol:	Serial packet based with proprietary error detection
Communications Parameters:	Reader: 9600 Bootloader: 57600
Communications Signal Level:	RS232
Interface Connector:	Single 5-pin Molex connector for power and communications
Antenna Type:	Integrated antenna
Upgradeable Firmware:	Yes

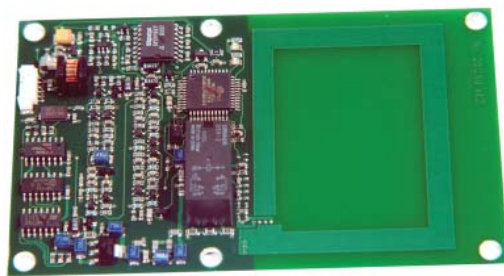
### Physical Characteristics

Dimensions (LxWxD):	108.3 x 68.0 x 13.4 mm (4.26 x 2.68 x 0.52 in.)
Weight:	32 g (1.13 oz.)
Mounting:	4 corner-mounted holes of 4 mm (0.16 in.)

### Environment

Operating Temperature:	-30°C to +70°C (-22°F to 158°F)
Storage Temperature:	-40°C to +85°C (-40°F to 185°F)
Relative Humidity:	80%, non-condensing
Power:	
Input Voltage:	+5 VDC ±5%, <50 mV ripple
Active Current:	210 mA
Standby Current:	N/A
Idle:	70 mA
RF Output Power:	120 mW max (typ)
Regulatory:	Final application dependent

Model:



INfinity 167 HF Reader Module 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 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).

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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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