

FEATURES

- Supports leading HF smart labels
Reads/writes different tags and smart labels via a single module
- Integrated laser bar code scan engine
Adds reliable bar code reading and decoding
- Retrofits into industry standard form factors
Facilitates integration of HF RFID technology into new or existing products
- Bi-directional serial communications protocol
Transmits data quickly and securely

TAGS SUPPORTED

ISO 15693
Inside PicoTag™
Philips I-CODE
Microchip MCRF355/360
TI-RFID™ Tag-it™
EPCglobal™ HF

BAR CODES SUPPORTED

UPC/EAN
Code 39
Code 93
Interleaved 2 of 5
Discrete 2 of 5
Code 128
Codabar
MSI

INfinity 186/187

High Frequency 13.56 MHz Dual - RFID & Bar Code - Technology Reader Module

Overview

The Sirit INfinity 186 dual technology embedded reader module combines a high performance laser scan engine and a class-leading RFID reader with integrated antenna to provide a single unit capable of reading standard bar code symbologies and most leading 13.56 MHz tags.

Designed to retrofit into industry standard form factors, systems integrators and OEMs can now easily incorporate high performance scanning and RFID reading into new or existing products, and can benefit immediately from the exceptional performance this module provides.



Regardless of the type of 1D bar code or high frequency RFID information you have to collect, the INfinity 186 dual technology reader engine can handle the job. Combining the two technologies in one compact package produces a unified, efficient reader and simplifies the process of adding RFID tag reading capabilities to equipment that heretofore had been limited to bar code scanning only.

Applications

This product is ideally suited for use in industrial handheld terminals in item tracking applications, robotics, point of sale terminals, vending machines and medical equipment.

INfinity 186/187

13.56 MHz Dual Technology Reader Module



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
Supported 1D Symbolologies:	UPC/EAN, Code 39, Code 93, Code 128, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI
Communications Protocol:	Serial packet based with proprietary error detection
Communications Parameters:	19200/9600/4800/2400/1200/600/300 bps, 8 data bits, odd/even/mark/space/ no parity, 1-2 stop bits
Communications Signal Level:	TTL level
Interface Connector:	12-way ZIF connector for power and communications
Antenna Type:	Integrated antenna
Upgradeable Firmware:	Yes

Physical Characteristics

Models:	INfinity 186 - RFID & Bar Code INfinity 187 - RFID Only
Dimensions (LxWxD):	40.4 x 25.4 x 19.1 mm (1.60 x 1.00 x .75 in.)
Weight:	INfinity 186 -16 g (0.56 oz.) INfinity 187 - 16 g (0.56 oz.)
Mounting:	Single tapped M2 screw hole with locating pin

Environment

Operating Temperature:	INfinity 186: -20°C to +55°C (-4°F to 131°F) INfinity 187: -20°C to +70°C (-4°F to 158°F)
Storage Temperature:	INfinity 186: -40°C to +60°C (-40°F to 140°F) INfinity 187: -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:	200 mA (RF carrier on) 150 mA (bar code scanner on)
Standby Current:	<1 mA (typ), peripheral electronics dependent
Idle:	75 mA
RF Output Power:	120 mW (typ)
Regulatory:	FCC Part 15

Models:



INfinity186 RFID Reader
with Integrated Laser Bar Code Scanner



INfinity 187 RFID Reader Only

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.

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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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