

FEATURES

- Supports leading LF tags & 1D bar code symbologies
Reads encoded data from both sources via one single module
- Integrated laser bar code scan engine
Adds proven bar code reading and decoding
- Retrofits into industry standard form factors
Facilitates integration of LF RFID technology into new or existing products
- Bi-directional serial communications
Provides reliable data transfer

TAGS SUPPORTED

EM Marin - H400X/V4050/V4066
TIRIS - RO/RW/MPT
Philips - Hitag1/Hitag2/PCF7931
Temic - e5530/e5550/e5555 (Q5)

BAR CODES SUPPORTED

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

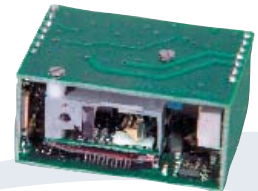
INfinity 176/177

Low Frequency 134.2/125 kHz Dual - RFID & Bar Code - Technology Reader Module

Overview

The Sirit INfinity 176 dual technology embedded reader module combines a high performance laser scan engine and a class-leading RFID reader to provide a single unit capable of reading standard bar code symbologies and most leading 134.2/125 kHz 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 low frequency RFID information you have to collect, the INfinity 176 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, such as animal identification and factory data collection systems.

INfinity 176/177

134.2/125 kHz Dual Technology Reader Module



Performance Characteristics

Frequency:	LF band, 134.2/125 kHz
Supported Transponders:	EM Marin - H400X/V4050/V4066 TIRIS - RO/RW/MPT Philips - Hitag 1/Hitag 2/PCF 7931 (read-only emulation) Temic-e5530/e5550,e5555 (Q5)
Supported 1D Symbologies:	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/noparity, 1-2 stop bits
Communications Signal Level:	TTL level
Interface Connector:	12-way ZIF connector for power and communications
Antenna Type (Not Included):	External. Inductance: 400 μ H, Q: 20-50 at 125 kHz
Upgradeable Firmware:	Yes

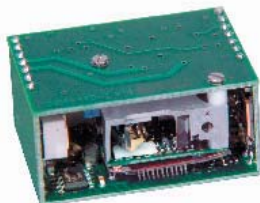
Physical Characteristics

Models:	INfinity 176: RFID & Bar Code INfinity 177: RFID Only
Dimensions (LxWxD):	40.4 x 25.4 x 19.1 mm (1.60 x 1.00 x .75 in.)
Weight:	INfinity 176 - 16.0 g (0.56 oz.) INfinity 177: 10.0 g (0.35 oz.)
Mounting:	Three tapped M2 screw holes. Compatible with existing industry standard form factors

Environment

Operating Temperature:	INfinity 176: -20°C to +55°C (-4°F to 131°F) INfinity 177: -20°C to +70°C (-4°F to 158°F)
Storage Temperature:	INfinity 176: -40°C to +60°C (-40°F to 140°F) INfinity 177: -40°C to +85°C (-40°F to 185°F)
Relative Humidity:	<80% non-condensing
Power:	
Input Voltage:	+5 VDC, <50 mV ripple
Active Current:	150 mA (typ), antenna dependent (125 kHz RF carrier on), 125 mA (bar code scanner on)
Standby Current:	<1 mA (typ)
RF Output Power:	120 mW (typ)
Regulatory:	Pre-compliance for FCC Part 15 (Pending)

Models:



INfinity 176 RFID Reader
with Integrated Laser Bar Code Scanner



INfinity 177 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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