

FEATURES

- Support of leading EPC compliant UHF Class 0, Writable Class 0/0+, Class 1 and UHF Generation 2 tags
Reads/writes tags in any environment with a single component
- Single connection to serial interface and power supply
Provides simple, low cost hardware integration
- Upgradeable firmware
Permits forward compatibility to future protocols
- User adjustable RF output power to 1 Watt (30 dBm)
Allows optimum output for the application
- Available in single or dual port antenna configurations via MMCX connection
Delivers integration flexibility into new or existing equipment

TAGS SUPPORTED

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

INfinity 210

Ultra High Frequency 902 - 928 MHz High Performance Multi-Protocol Reader Module

Overview

Supporting EPCglobal™ compliant UHF tags, the INfinity 210 multi-protocol RFID reader is a compact and powerful OEM module designed for medium and high performance applications. This robust RFID module is designed for integration into handheld portable data terminals, printers, label applicators, mobile computers and other OEM devices.

Configured to meet application requirements, the INfinity 210 OEM reader module comes standard with a MMCX connection to support a single antenna and is available in an optional separate transmit and receive antenna configuration. 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

The INfinity 210 is a high power, high performance UHF OEM module that easily integrates into all data collection and data management products. A single or dual antenna design provides an excellent cost performance choice. The small form factor, low power consumption, FCC compliant and multi-protocol design makes integration efficient and cost effective.

INfinity 210

902 - 928 MHz RFID OEM Reader Module



Performance Characteristics

Frequency:	UHF, 902 - 928 MHz
Supported Transponders:	EPCglobal Class 0, Writable Class 0/ 0+, EPCglobal Class 1, EPCglobal UHF Generation 2
Communications Protocols:	Serial RS232 protocol at 3.0 V CMOS logic levels with error detection; backwards compatible with first generation INfinity 200/ST200 Sirit SLC protocol Custom wire protocols available upon request
Communications Parameters:	115,200 bps default. Others available upon request 8 data bits, no parity, 1 stop bit
Communications Signal Level:	3.0 V CMOS
Interface Connector:	Molex 53261-1090 or equivalent
Antenna Connector:	MMCX connection Single port standard Optional separate TX-RX antenna configuration
Upgradeable Firmware:	Yes

Physical Characteristics

Dimensions (LxWxD):	85.8 x 54.8 x 13.0 mm (3.38 x 2.16 x 0.51 in.)
Weight:	88.0 g (3.1 oz.)
Mounting:	4 Hole Mounting Pattern

Environment

Operating Temperature:	-10°C to +60°C (14°F to 140°F)
Storage Temperature:	-40°C to +85°C (-40°F to 185°F)
Relative Humidity:	10 - 90%, non-condensing
Power:	
Input Voltage:	+5 VDC ± 5%
Active Current:	<1.5 A peak
Standby Current:	170 mA, Nominal (CPU active only)
Idle/Sleep:	<5 mA
RF Output Power:	1 Watt (30 dBm), user adjustable under host control
Regulatory:	Compliance to FCC Part 15

Model:



INfinity 210 RFID Reader

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.

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 1.866.338.9586

E-mail: sales@sirit.com

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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