



FEATURES

- 'Plug and play' industry standard Secure Digital (SDIO) interface
Transforms virtually any device into a RFID reader/writer
- Multiprotocol RFID support
Reads / writes to a broad range of high frequency (13.56 MHz) transponders, tags, and smart labels
- Leading embedded operating system compatibility
OS support includes Microsoft® Windows Mobile®/Pocket PC (2003 and up)
- Drives significant ROI by preserving legacy equipment investments
Cost-effective upgrade path for existing devices through aftermarket installation of RFID functionality

PROTOCOLS SUPPORTED

ISO 14443A&B
ISO 15693
ISO 18000-3
INSIDE PicoTag™
HID iClass®**
Tagsys C320*
MIFARE® Ultralight
MIFARE® Classic*
MIFARE® DESFire*
MIFARE® PROX*
MIFARE® PRO*
FeliCa™*
KSW TempSens®
KSW VarioSens®

Plug-n-Play RFID

Secure Digital (SDIO) RFID Module

Overview

Sirit's Plug-n-Play SDIO RFID Module was designed to broaden access to RFID technology beyond the engineering lab and into the mass market, by enabling the quick, easy, and cost-effective integration of RFID technology into devices without the need for complex engineering support or technical know-how. Utilizing the mass-market industry standard Secure Digital (SDIO) interface and an integrated reader-antenna packaging, Sirit's Plug-n-Play SDIO RFID Module can instantly transform a myriad of everyday devices including smartphones, PDAs, handhelds, and laptop PCs into cost-effective RFID readers and writers. Furthermore, the 'plug and play' capabilities of the Sirit SDIO RFID Module allow devices to be upgraded on an aftermarket basis, and in the field, thereby providing an extremely quick and cost-effective method to preserve existing investments in devices and evolve legacy equipment to support RFID technology.

Utilizing patent-pending technology, the Sirit Plug-n-Play SDIO RFID Module supports a broad range of high frequency (13.56 MHz) RFID transponders, tags, and smart labels including ISO 14443A&B, ISO 15693, ISO 18000-3, INSIDE PicoTag™, HID iClass®**, Tagsys C320*, MIFARE® Ultralight, MIFARE Classic*, MIFARE DESFire*, MIFARE PROX*, MIFARE PRO*, FeliCa™*, KSW TempSens®, KSW VarioSens® and supports a wide range of operating systems including Microsoft® Windows Mobile®/Pocket PC (2003 and up). The Sirit Plug-n-Play SDIO RFID Module also features an extremely small form-factor and low power consumption, thus providing an optimal solution for a myriad of mobile and handheld applications.

Applications

Featuring 'plug and play' integration, broad multi-protocol RFID support, and aftermarket installation capabilities, Sirit's Plug-n-Play SDIO RFID Module enables a wide range of high growth mass market applications including contactless/cashless payments, public transportation and transit ticketing, advanced consumer retail affinity and CRM, event/venue management, pharmaceuticals, product authentication, healthcare, access control, and ePassports.



Plug-n-Play RFID

Secure Digital (SDIO) RFID Module



Performance Characteristics

Frequency:	High Frequency band, 13.56 MHz
Supported Transponders:	ISO 14443A&B, ISO 15693, ISO 18000-3, INSIDE PicoTag™, HID iClass®*, Tagsys C320*, MIFARE® Ultralight, MIFARE Classic*, MIFARE DESFire*, MIFARE PROX*, MIFARE PRO*, FeliCa™*, KSW TempSens®, KSW VarioSens®
Communications Protocols:	SDIO
Communications Parameters:	115000 baud
Communications Signal Level:	SDIO
Interface Connector:	SDIO
Antenna Connector:	Integrated internal antenna
Host OS Support:	WinCE (Pocket PC / Windows Mobile 2003 and up)

Physical Characteristics

Dimensions (LxWxD):	66.5 X 29.3 X 6.0 mm (2.61 X 1.15 X 0.24 in.)
Weight:	6.0 g (0.21 oz.)
Mounting:	SDIO plug-n-play module

Environment

Operating Temperature:	0° to +40° C
Storage Temperature:	-20° to +70° C
Relative Humidity:	90% non-condensing
Power:	From SDIO slot
Input Voltage:	3.3V from SDIO slot
Active Current:	65 mA
Standby Current:	17 mA
RF Output Power:	50 mW
Regulatory:	FCC Part 15

Model:



Plug-n-Play SDIO RFID Module

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.

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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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