



m210-2G

Low-cost, low-power, multi-standard - 13.56 MHz contactless coupler

Features

- Interoperable with ISO 14443 A&B, ISO 15693, and the Sony protocol
- Operating distance up to 6cm
- Small footprint
- Low power consumption: 50mA in active mode, 50µA in standby
- Automatic card detection in standby mode
- Cryptographic security management
- Easy to incorporate in devices
- UART serial interface
- Additional memory for application downloads
- 250-byte communication buffer
- Evaluation kit available

Applications

- Physical and logical access control
- Tracking
- Migration of readers from contact to contactless capability
- Mass transit

The m210-2G contactless coupler offers contactless reader applications like physical access control, logical access, and tracking applications.

Multi-standard

It is compatible with ISO 14443 A/B and ISO 15693 protocols and capable of communicating with the Sony protocol.

Operating in transparent mode it can communicate with any chip compliant with these standards.

Easy to Install and Economical

The m210-2G's small, optimized footprint has dimensions, including antenna, of 6 x 4.1cm. This makes it easy to incorporate into small, handheld, electronic access control devices for contactless capability.

Its automatic card detection function and low-power design save power in battery-operated devices, giving them functioning lives that last for years.

Secure

The m210-2G provides **pico**pass® security measures that include secret key management and cryptographic calculations. They ensure secure authentication and communication between the **pico**pass® and **micro**pass® platforms, coupler, and host devices.

Customizable

The m210-2G offers extended memory space, where developers can download and store additional software to optimize communication time with transponders or to customize features.

Contact-enabled

The m210-2G contactless coupler has contact capability. It communicates like a conventional contact card - ISO 7816, T=0. It is therefore a suitable tool for migrating readers from contact to contactless capability.

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Available Kit

Proximity Kit Developers can use the proximity Kit to evaluate INSIDE's technology, making final development and system integration a straightforward experience.

Key Technical Data

General Specifications

Operating frequency	13.56 MHz
Operating temperature	-10°C to +70°C
Physical dimensions	6 x 4.1 cm
Operating Distance	up to 6 cm
(Depending on the type of transponder and antenna)	

Interfaces

Host interfaces	RS232-CMOS / ISO 7816-3
Baud Rate	Default 9600 bps (up to 115.2 kbps)
Protocols	14443 A/B, 15693, Sony Protocol

Electrical Characteristics

Pin	Description	Min	Typical	Max	Unit
VDD	DC voltage	4.75	5	5.25	V
	Ripple < 30 MHz			50	mV
	Supply current (RF off)		15		mA
	Standby current (sleep mode)			50	µA

m210-2G configuration

