

MP9210 Low-Power, Multi-Protocol 13.56 MHz Reader

Applications Include:

- Smart-Shelving
- Customer Loyalty Programs
- Smart Cards
- Security Access Control

The SAMSys™ MP9210 is a low-cost, multi-protocol RFID proximity reader operating at 13.56 MHz. This reader is designed for short-range RFID applications. The MP9210 can be connected to other SAMSys readers operating at any of the supported frequencies to blend their respective functionalities into advanced multi-frequency, multi-protocol solutions. The reader currently supports the following protocols: Philips I-Code, Texas Instruments Tag-It, and ISO 15693.

Features

Advantages

Benefits

Robust, flexible, multi-protocol architecture

- Easy modification to support new tag protocols inexpensively for truly open RFID solutions
- Wide applicability with new products to protect against tag obsolescence
- Easy adaptation of emerging new standards

- Reduces integration costs and shortens implementation time
- Protects hardware investments by providing flexibility in application use
- Reduces dependence on a single vendor's tag protocol and hardware
- Protects against hardware obsolescence

Multi-frequency network capability

- Network capabilities with other SAMSys readers with the same or different frequencies for building multi-frequency RFID solutions

- Reduces infrastructure costs
- Protects hardware investments by providing flexibility in application use

10BaseT Ethernet LAN support through the SAMSys Concentrator module

- Quick, simple integration of multiple readers that are accessible from custom Web or host-based applications
- Real-time remote data access to administrator functions including software diagnosis and application upgrading through an easy-to-use Web interface

- Minimizes support costs
- Minimizes downtime

Read/write capabilities and multiple tag reading functionality with anti-collision support

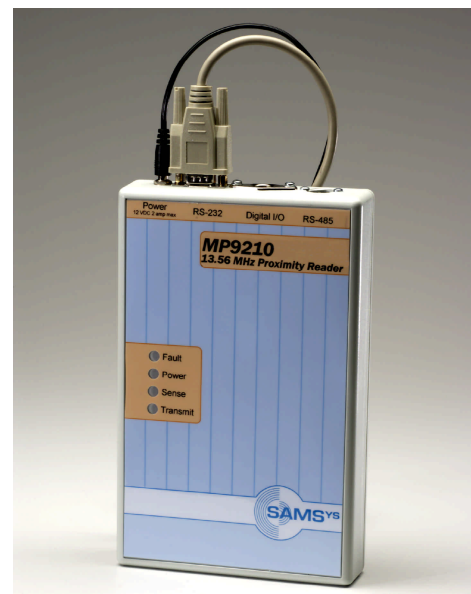
- Supports read-only and read/write RFID tags
- Ability to read many tags at the same time

- Reduces costs by eliminating the need for separate read and write hardware
- Improves application performance and reliability

The MP9210 can be used as a stand-alone solution or in a networked environment using the SAMSys Interrogator Control and Concentrator Module (ICCM).

This reader is available as a high-feature, board-level module ready for use in your own equipment or as a fully enclosed reader housed within an ABS plastic case.

The MP9210 includes an integrated antenna that makes it easy to set up and use.



Features	Advantages	Benefits
Multiple host interface connection options — RS-232 and RS-485	<ul style="list-style-type: none"> Immediate support of standard connectivity options to match existing environments without costly interface modules 	<ul style="list-style-type: none"> Reduces costs by eliminating the expense required to develop and maintain custom interface modules
Digital input and output lines	<ul style="list-style-type: none"> Integrated capability to sense external triggers to start read/write cycles and to control actuators for subsequent item movement 	<ul style="list-style-type: none"> Reduces costs by eliminating the need for additional PLC hardware
SOAP stack with the SAMSys Concentrator module	<ul style="list-style-type: none"> Use of efficient XML-based messaging protocol to ensure standards compliance and host platform independence 	<ul style="list-style-type: none"> Reduces costs by shortening development time
Integrated antenna	<ul style="list-style-type: none"> An integrated reader device that is easy to install and maintain 	<ul style="list-style-type: none"> Reduces installation costs and shortens implementation time
System scalability	<ul style="list-style-type: none"> Ability to seamlessly add components to the system as customer needs change 	<ul style="list-style-type: none"> Protects hardware investments

specifications

Supported RFID tags	ISO 15693 Philips I-code Texas Instruments Tag-It
Detection range	Up to 6 in (15.24 cm) depending on tag type
Average read times	0.5 sec
Operating frequency	13.56 MHz
Power supply	12-15 VDC
Communication ports	RS-232, RS-485
Digital Input/Output	(4) TTL input lines (optically isolated) (4) TTL output lines (open collector, 5V, 40 ma sink)
Signaling	Yellow LED: powered up 1st Green LED: reading tag data 2nd Green LED: data successfully read Red LED: error occurred
Material	Flame-retardant ABS plastic
Dimensions	8.66 x 5.51 x 1.58 in (22.00 x 14.00 x 4.01 cm)
Weight	12.8 oz (362.88 g)
Operating temperature	-4° F to 122° F (-20° C to 50° C)
Operating humidity	0-95% relative, noncondensing
Storage temperature	-40° F to 185° F (-40° C to 85° C)
Storage humidity	0-95% relative, noncondensing
Part number	HI469-21

About SAMSys

SAMSys Technologies, Inc. is a world-leading provider of RFID reader hardware solutions in the LF, HF, and rapidly growing UHF segments of the RFID marketplace. SAMSys has expanded its mandate to also offer system architecture services, high-feature OEM boards, and a family of products to simplify the installation and ensure the ongoing performance of the overall RFID infrastructure.

Contact Us

For more information about the MP9210 or other SAMSys products, contact a SAMSys representative at:

SAMSys Technologies, Inc.
44 East Beaver Creek Rd., Unit 11
Richmond Hill, Ontario, Canada
L4B 1G8

- Phone: 905-707-0404
- Toll free: 888-483-6646
- Fax: 905-707-9944

- E-mail: samsys@samsys.com
- Web: www.samsys.com