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.

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
</table>
| 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.
### Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple host interface connection options — RS-232 and RS-485</td>
<td>• Immediate support of standard connectivity options to match existing environments without costly interface modules</td>
<td>• Reduces costs by eliminating the expense required to develop and maintain custom interface modules</td>
</tr>
<tr>
<td>Digital input and output lines</td>
<td>• Integrated capability to sense external triggers to start read/write cycles and to control actuators for subsequent item movement</td>
<td>• Reduces costs by eliminating the need for additional PLC hardware</td>
</tr>
<tr>
<td>SOAP stack with the SAM Sys Concentrator module</td>
<td>• Use of efficient XML-based messaging protocol to ensure standards compliance and host platform independence</td>
<td>• Reduces costs by shortening development time</td>
</tr>
<tr>
<td>Integrated antenna</td>
<td>• An integrated reader device that is easy to install and maintain</td>
<td>• Reduces installation costs and shortens implementation time</td>
</tr>
<tr>
<td>System scalability</td>
<td>• Ability to seamlessly add components to the system as customer needs change</td>
<td>• Protects hardware investments</td>
</tr>
</tbody>
</table>

**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

---

**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

---

Specifications subject to change without notice. SAM Sys is a trademark of SAM Sys Technologies, Inc. or its subsidiaries in the United States and other countries.  
© Copyright 2003 SAM Sys Technologies, Inc. All rights reserved.